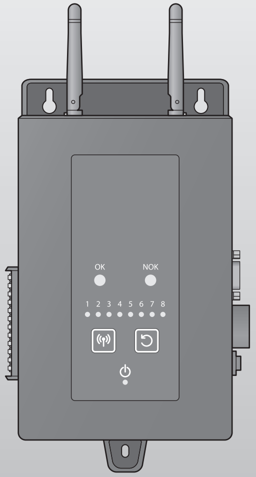
Panasonic®

Operating Instructions

Assembly Controller

Model No.:

EYFRW2



IMPORTANT
Read and follow the safety and operating instructions before using this product.
Do not use the wireless function outside the country where you purchased the product. Doing so may violate the local laws and regulations.

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EN

GETTING STARTED

Operating Environment

You need to use a web browser to configure the controller.
Prepare a PC satisfying the following requirements.

Operating environment

Compatible OS	Windows 10 or later (supporting any of the web browsers below)
Web browser	Microsoft Edge version 102 or later or Google Chrome version 102 or later

- Some PCs are not available even if they meet the operating environment.
- Depending on the use environment etc. of your PC, the descriptions and screens in this Operating Instructions might be different from the actual descriptions and screens. Please be forewarned.
- The contents of this Operating Instructions are subject to change without prior notice.
- Any reproduction of the contents of this Operating Instructions in whole or in part is prohibited without permission.
- Figures in this Operating Instructions are for reference only.

[Note]

Always keep the firmware up to date.
You can find the latest firmware data on the following website which provides access to the Operating Instructions.
For how to update the firmware, see “Updating the Firmware”.

Refer to P81

How to Access the Operating Instructions

The current version of the controller’s Operating Instructions and other resources can be downloaded from the web site below.

https://www.panasonic-powertools.eu/en/construction/documents.htm

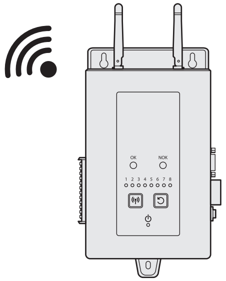
Trademark

- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries.
- The screenshots are used in accordance with the guidelines of Microsoft Corporation.
- Wi-Fi and Wi-Fi logo are registered trademarks of the Wi-Fi Alliance.

Other names including company names and product names in this Operating Instructions are trademarks or registered trademarks of their respective companies.
™ and ® may be omitted in this Operating Instructions.

Intended Use

This product is a controller that wirelessly communicates with tools.
It can receive fastening history data from tools, make settings of tools, and control the quantity to fasten.



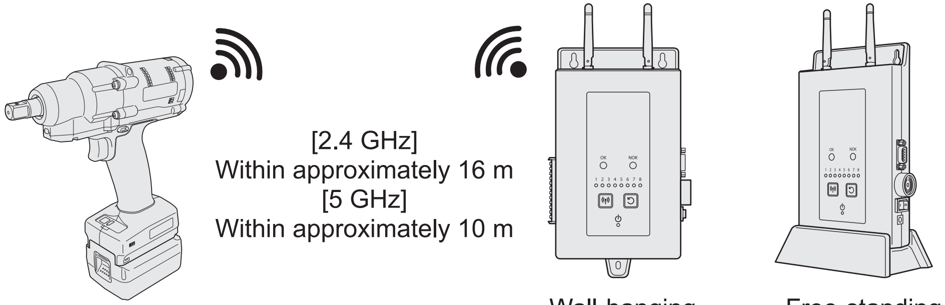
01 Connect to up to 8 tools.

02 Support 2.4 GHz and 5 GHz bands

03 Support a fastening control function and a history storing function

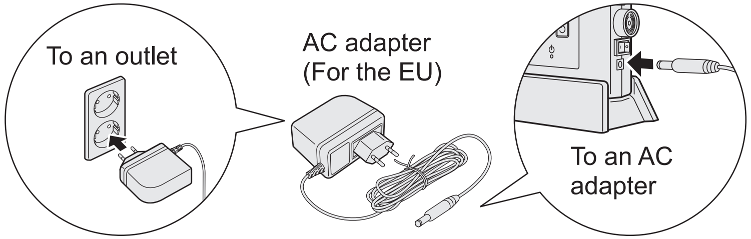
Setup

Install the controller in a range where wireless communication with tools is possible.
Supply power via an AC outlet and connect to external devices through communication interfaces as necessary.



Wall-hanging

Free-standing



- The controller contains a coin cell battery to keep the clock function (RTC) running. It is recommended that you keep the power on to reduce consumption of the internal coin cell battery.
- The wireless coverage may change depending on the environment.

SAFETY PRECAUTIONS Always adhere to the instructions

Below are the instructions you should always adhere to, to prevent human harm and property damage.

■ The severity of harm and damage caused by incorrect use is presented with the following.

⚠ WARNING	May cause death or serious injury.
⚠ CAUTION	May cause minor injury or property damage.

■ The content that should be observed is presented with the following symbols. (The following are examples)

⊘	You MUST NOT do the action.
❗	You MUST do the action.

⚠ WARNING

Mandatory	**● Make sure that there are no buried objects such as conduits, water pipes, and gas pipes in the installation place.** Touching such buried objects may cause electric shock or lead to electric leakage or gas leakage.
	● Insert the power plug all the way seated. Incomplete insertion may cause electric shock or heat generation resulting in fire. Do not use a damaged plug or loose socket.
	● Clean dust off the power plug routinely. Accumulated dust on the plug may absorb moisture and cause poor insulation resulting in fire. Disconnect the power plug and wipe it with dry cloth.
	● Use the specified power cord only. Using any other plug may cause electric shock, short circuit, or fire.
	● Keep the workplace sufficiently bright. Poor visibility in a dark workplace may lead to an accident or injury.

⚠ WARNING

Prohibited	**● Do not use a socket or wiring device in the manner of exceeding the rated value. Use 100 V-240 V AC only.** Exceeding the rated value due to an overloaded socket may cause heat generation resulting in fire.
	● Do not damage the power cord or plug. (Avoid damaging, breaking, modifying, putting close to a heat source, bending with force, twisting, pulling, putting a heavy load on it, pinching, or binding) Using the damaged cord or plug may cause electric shock, short circuit, or fire. Check the cord and plug periodically and if any damage, consult your dealer.
	● Do not use the controller with a DC power supply, engine generator, or transformer. **● Do not use the controller in a place with flammable liquid or gas.** Doing so may cause generation of heat, smoke, fire, or burst.
	● Do not install the controller on a mortar wall. Screwing it on a mortar wall may cause heat generation from wire mesh inside, resulting in fire in case of electric leakage.
	● Disconnect the power plug between uses. Keeping it connected may cause poor insulation resulting in electric shock or fire from electric leakage.
No disassembly	**● Do not modify the controller. Do not disassemble or repair the controller.** Doing so may cause fire, electric shock, or injury. For repair, consult your dealer or our Customer Support Centre.
Keep dry	**Avoid the following use of charged tools.** **● Do not use or leave them exposed to rain or moisture.** **● Do not use them immersed under water.** Doing so may cause smoke, fire, or burst.
No wet hand	**● Do not use a wet hand to connect or disconnect the power plug to or from the outlet.** Doing so may cause electric shock.

SAFETY PRECAUTIONS Always adhere to the instructions

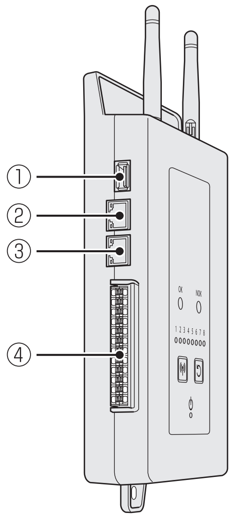
⚠ CAUTION

Prohibited	● **Do not use the controller for any other purpose than intended.** Doing so may cause injury.
	● **Do not put the controller in a place accessible by a child.** Doing so may cause an accident or trouble.
	● **Do not use the controller with oil or other foreign material attached to it.** Such oil or other foreign material may enter the inside, resulting in generation of heat, fire, or burst.
	● **Do not store the main body in a place where the temperature may rise to 45 °C or higher.** Doing so may lead to abnormal operation.
	● **Do not work in an unusual position.** Otherwise you may fall over and be injured. Always stand on a stable footing and keep a good balance.
	● **Do not use the controller when you are tired.** Doing so may cause an accident or injury.
	● **Do not allow a child or any other person who is not an operator to come near the workplace or touch the controller.** Doing so may cause injury.
	● **Do not use the controller with incompatible devices.** Doing so may cause malfunction resulting in an accident.
Mandatory	● **To install the controller on a wall, secure it with screws to prevent it from falling.** You may be injured if it falls.
	● **To disconnect the power plug, always hold the power plug without pulling the cord.** Pulling the cord may cause electric shock or short circuit.
	● **Before use, check the controller and other parts for any damage and confirm their normal operation.** Failure to do so may lead to breakage resulting in injury.
	● **Keep the workplace clean.** A disordered workplace or work table may lead to an accident.
	● **Consider well how to handle and work, pay attention to the surrounding environment, and use common sense during work.** Failure to do so may cause an accident or injury.

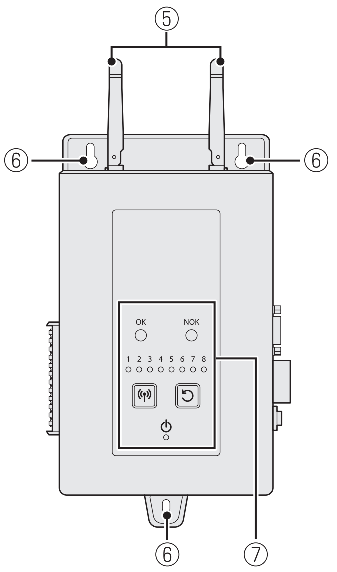
FUNCTIONAL DESCRIPTION

Main Body

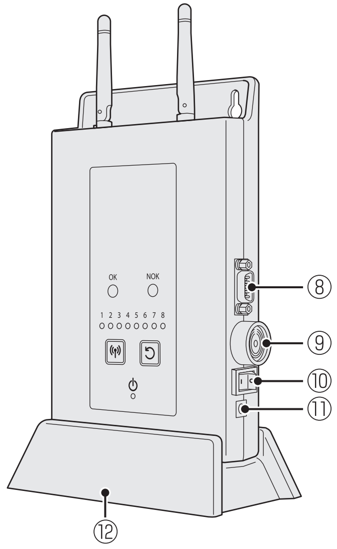
■ Left side



■ Front side

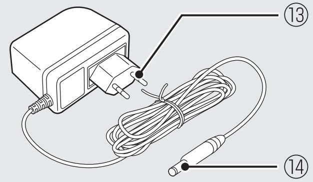


■ Right side

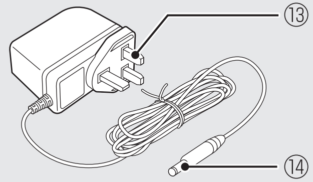


■ AC adapter

For the EU



For the UK

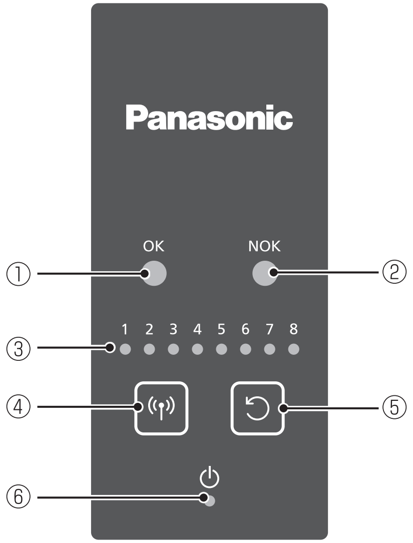


①	USB Port (Type-A)
②	Ethernet port (for maintenance)
③	Ethernet port (for network)
④	1～24 I/O port
⑤	Diversity antenna
⑥	Wall-hanging hole
⑦	Control panel

⑧	IOIOI Serial port (RS232C)
⑨	Buzzer
⑩	Power switch
⑪	AC adapter socket
⑫	Controller stand
⑬	Power plug
⑭	Power connector

FUNCTIONAL DESCRIPTION (cont.)

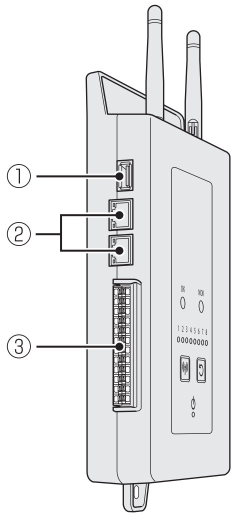
■Control panel

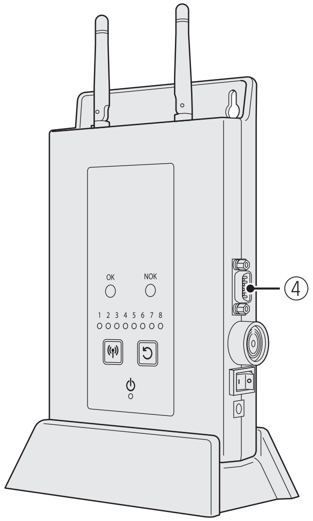


①	Fastening OK lamp Solid green: A fastening completion signal has been received. Off: A fastening completion signal is not received yet.
②	Fastening NOK lamp Solid red: A fastening failure signal has been received. Off: A fastening failure signal is not received yet.
③	Communication lamp (No. 1 to No. 8) Solid blue: A tool has been registered. Blinking blue: A tool is being registered or out of coverage. Off: A tool is not registered yet.

④	Pairing key
⑤	Reset key
⑥	Power lamp Solid yellow: Power on (receiving mode) Off: Power off Blinking yellow: Error

■Communication interface





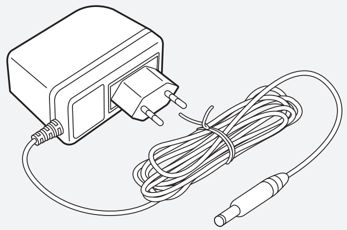
Interface		Details
①	USB	Use this port to connect a USB flash drive to update the firmware. • USB2.0 Type-A × 1 • Directly connect a USB flash drive (without extension)
②	Ethernet (for maintenance and network)	Use this port to connect to a PC for configuration or a host system. • 10Base-T/100Base-TX × 2 • Cable length: Less than 30 m * Connect the Ethernet port (for maintenance) directly to a PC for configuration. (Do not use a hub)
③	Input/output (I/O) terminal	Use this port to connect to an external device (e.g., a PLC). • 8 inputs and 8 outputs • Cable length: 10 m or less • Input terminal rating: 24 V DC, 50 mA • Output terminal rating: 30 V DC, 3 A
④	Serial port (RS232C)	Use this port to connect to an external device (e.g., a PLC). • RS232C × 1 • Cable length: 10 m or less

FUNCTIONAL DESCRIPTION (cont.)

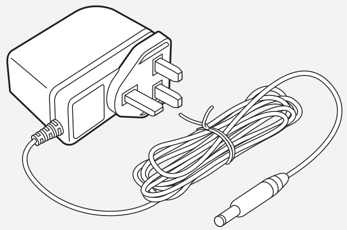
Accessory

■ **AC adapter × 1**

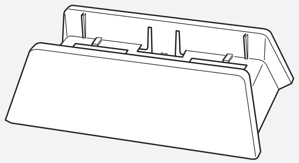
For the EU
(WEYFRW1K7751)



For the UK
(WEYFRW1K7851)

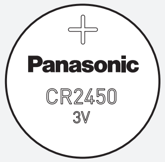


■ **Controller stand × 1**
(EYFRW1F7001)



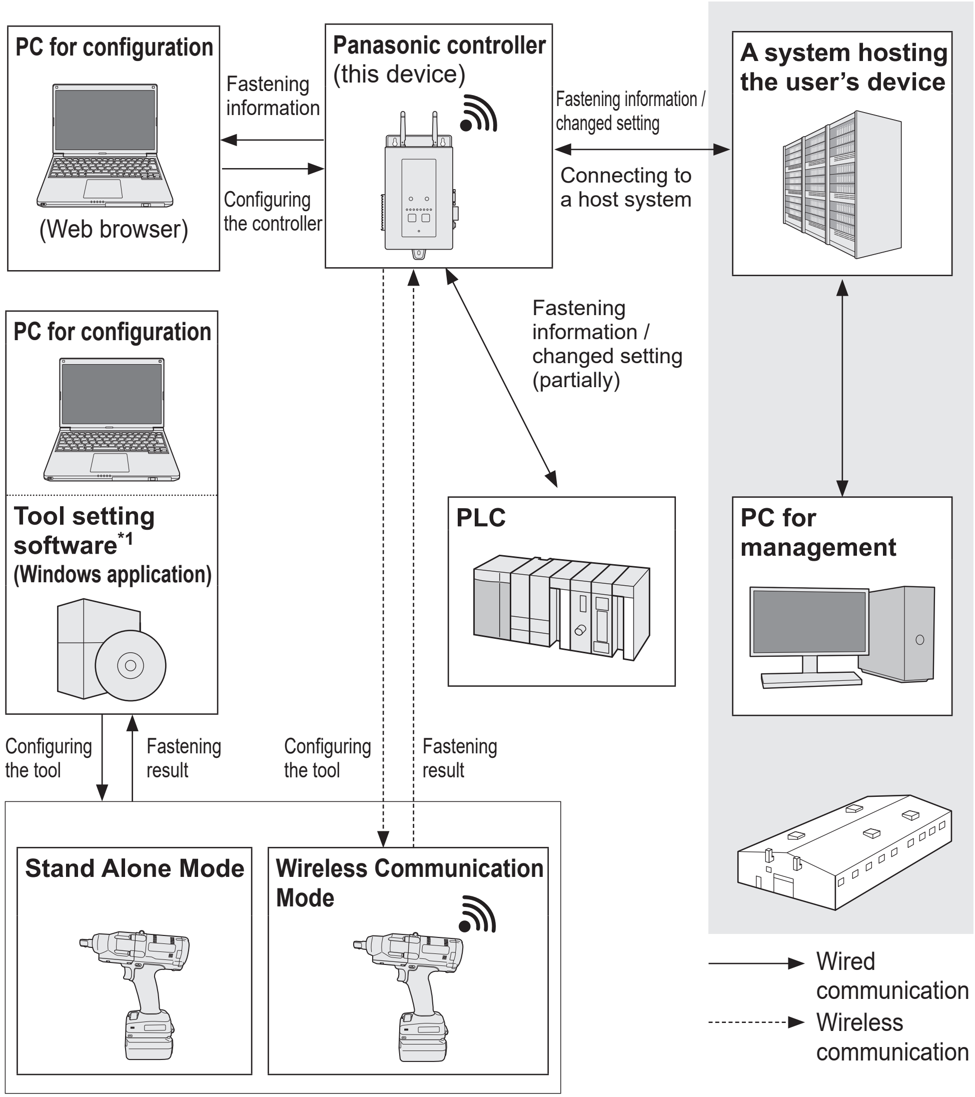
Consumables

■ **Coin cell battery** (CR2450) × 1
For how to replace, see “Replacing the Coin Cell Battery”.
Refer to P82


Panasonic
CR2450
3V

SYSTEM CONFIGURATION

System Configuration


PC for configuration
(Web browser)
Fastening information
Configuring the controller
Panasonic controller (this device)
Fastening information / changed setting
Connecting to a host system
A system hosting the user’s device
PC for configuration
Tool setting software*1 (Windows application)
Fastening information / changed setting (partially)
PLC
PC for management
Configuring the tool
Fastening result
Configuring the tool
Fastening result
Stand Alone Mode
Wireless Communication Mode
Wired communication
Wireless communication

*1 The “tool setting software” can be downloaded from our web site. **Refer to P2**

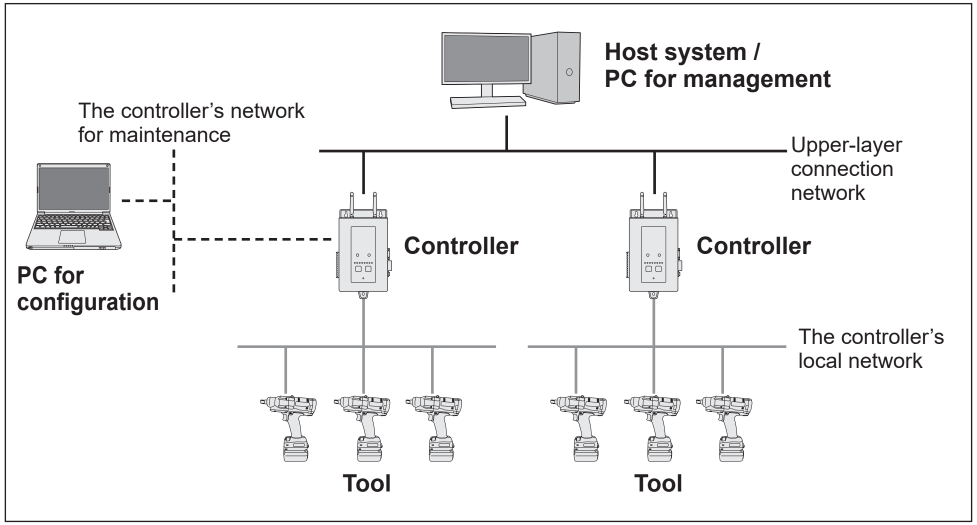
SYSTEM CONFIGURATION (cont.)

Typical Network Configurations

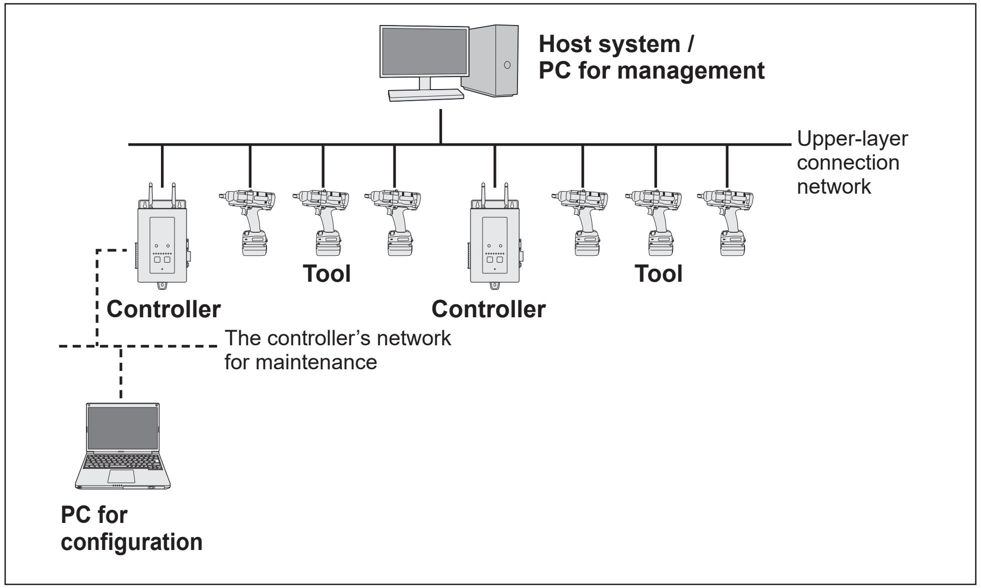
The controller can be used in the 3 configurations below.

■ Not managing tools' IP addresses

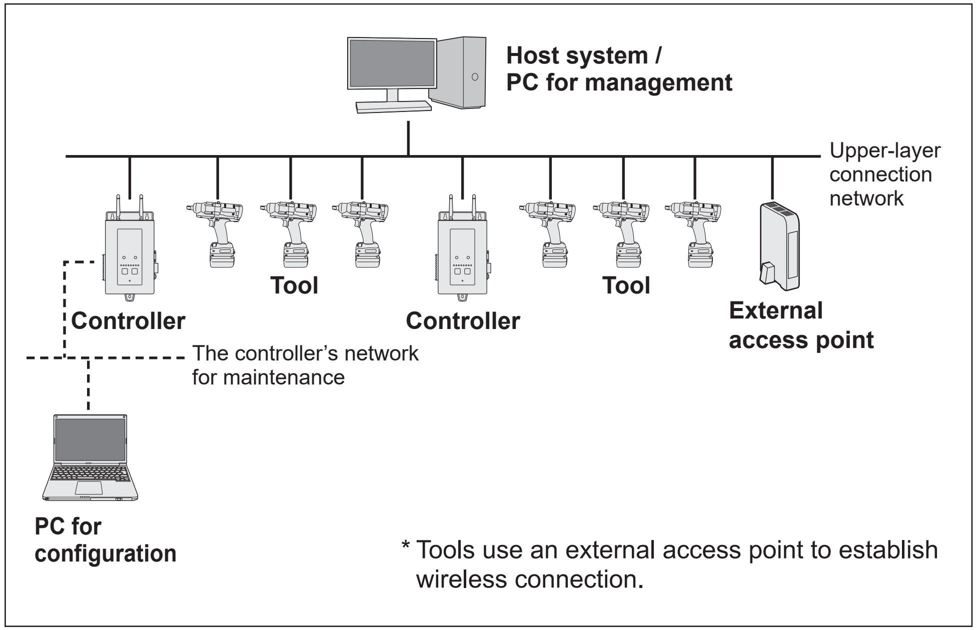
* Automatic assignment (using the access point built in the controller)


Host system /
PC for management
The controller's network for maintenance
Upper-layer connection network
Controller
Controller
PC for configuration
The controller's local network
Tool
Tool

■ Managing tools' IP addresses (using the access point built in the controller)


Host system /
PC for management
Upper-layer connection network
Tool
Tool
Controller
Controller
The controller's network for maintenance
PC for configuration

■ Recognising tools' IP addresses (using external access points)


Host system /
PC for management
Upper-layer connection network
Tool
Tool
Controller
Controller
External access point
The controller's network for maintenance
PC for configuration

* Tools use an external access point to establish wireless connection.

* Use the system within your local network (with no Internet connection).

* Be sure to check the IP address setting for network of the controller before starting use. (Change the default if necessary)

CONNECTABLE TOOLS / CAUTIONS FOR INSTALLATION

Applicable Tool Models List

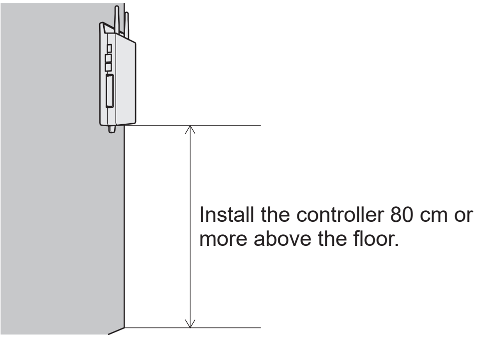
Models that can be registered	EYFMH1WC, EYFMH2WC EYFMH1WP, EYFMH2WP

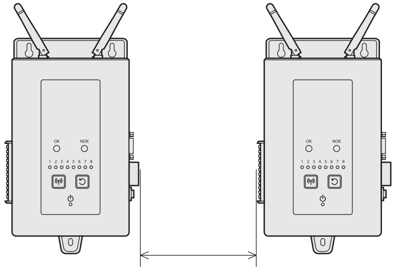
Cautions for Installation

Install the controller 80 cm or more above the floor. Keep 10 cm or more between the installed controllers. (1 m or more is recommended)
Keep obstructions away from the antennas of the installed controller.
The controller has 2 diversity antennas. Keep obstructions away from both antennas.

⚠ CAUTION

For safe installation, use wood screws with a nominal diameter of 3.5 mm to 4.1 mm.

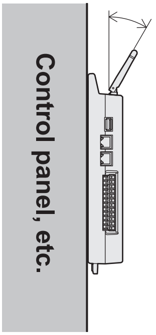

Install the controller 80 cm or more above the floor.



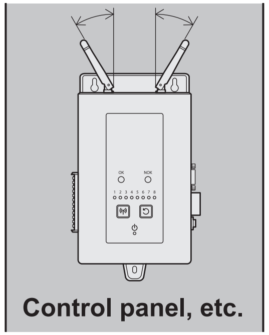
Keep 10 cm or more between the installed controllers.

Adjust the antennas’ angles if communication is unstable.
* Particularly for the controller installed on a metal panel, adjusting the antennas’ angles may improve the communication stability.

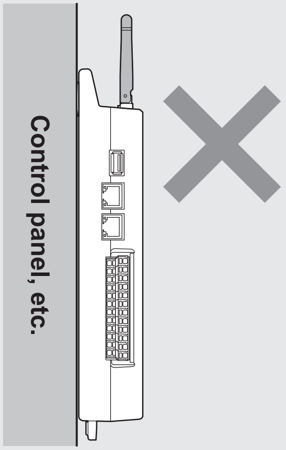
Tilt the antennas 30 to 45° from the wall.



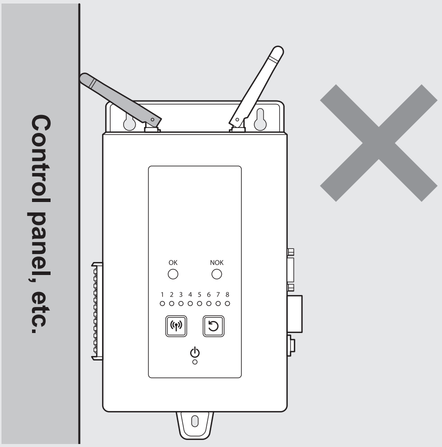
Tilt the antennas 30 to 45° outward when seen from the front.



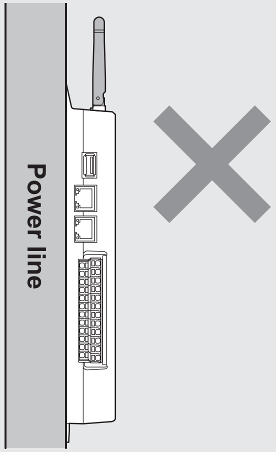
■ Avoid the following installation.



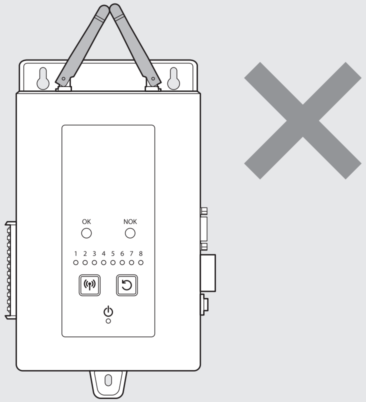
The antenna is in parallel with the control panel (metal panel) on the back side.



The antenna is in contact with the control panel (metal panel).



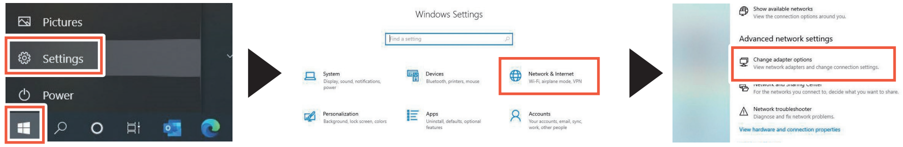
The controller is installed very close to a power line.


The antennas are in contact with each other.

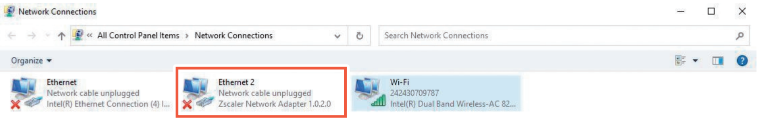
Network Settings on the PC for Configuration

Set the network settings on the PC for configuration as below when you connect it and the controller for the first time.

1 Click ⊞ on the lower left of the screen and click ⚙ (Settings) - [Network & Internet] - [Change adapter options].


Pictures
Settings
Power
Windows Settings
Find a setting
System
Display, sound, notifications, power
Devices
Bluetooth, printers, mouse
Network & Internet
Wi-Fi, airplane mode, VPN
Personalization
Background, lock screen, colors
Apps
Uninstall, defaults, optional features
Accounts
Your accounts, email, sync, work, other people
Show available networks
View the connection options around you.
Advanced network settings
Change adapter options
View network adapters and change connection settings.
Network and Sharing Center
For the networks you connect to, decide what you want to share.
Network troubleshooter
Diagnose and fix network problems.
View hardware and connection properties

2 Right-click the device to connect and click [Properties].

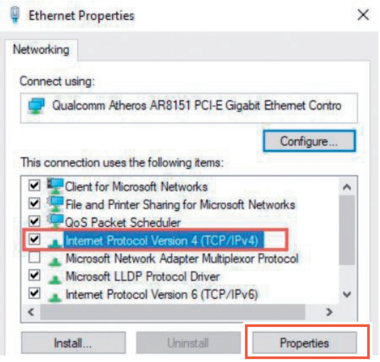

Network Connections
« All Control Panel Items › Network Connections
Search Network Connections
Organize ▾

Ethernet
Network cable unplugged
Intel(R) Ethernet Connection (4) I...

Ethernet 2
Network cable unplugged
Zscaler Network Adapter 1.0.2.0

Wi-Fi
242430709787
Intel(R) Dual Band Wireless-AC 82...

3 Select “Internet Protocol Version 4” and click [Properties].

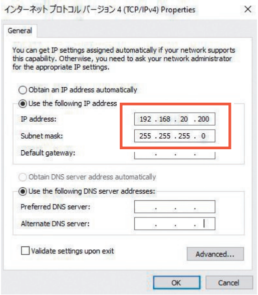

Ethernet Properties
Networking
Configure...
Install...
Uninstall
Properties

Connect using:
Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Contro

This connection uses the following items:

- ☑ Client for Microsoft Networks
- ☑ File and Printer Sharing for Microsoft Networks
- ☑ QoS Packet Scheduler
- ☑ Internet Protocol Version 4 (TCP/IPv4)
- ☐ Microsoft Network Adapter Multiplexor Protocol
- ☑ Microsoft LLDP Protocol Driver
- ☑ Internet Protocol Version 6 (TCP/IPv6)

4 Set the “IP address” and “Subnet mask” as below.


インターネット プロトコル バージョン 4 (TCP/IPv4) Properties
General
Advanced...
OK
Cancel

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address
IP address: 192 . 168 . 20 . 200
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .

○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server: . . .
Alternate DNS server: . . .

☐ Validate settings upon exit

IP address	192 . 168 . 20 . 200
Subnet mask	255 . 255 . 255 . 0

* If you changed the IP address for the controller after initial connection, enable connection by returning the network settings (IP address and subnet mask) on the PC for configuration. At the time, set the IP address so that the controller and the PC for configuration belong to the same network.

* Write down and keep the network settings of the PC for configuration (IP address and subnet mask) before you change it.

* Leaving the default gateway unspecified (blank) is recommended.

Displaying the Setting Screen

To configure the controller, access it via a web browser.
Display the controller’s setting screen as below.

When you use the controller for the first time, remove the protective film from the coin cell battery.

1 Turn the controller on.

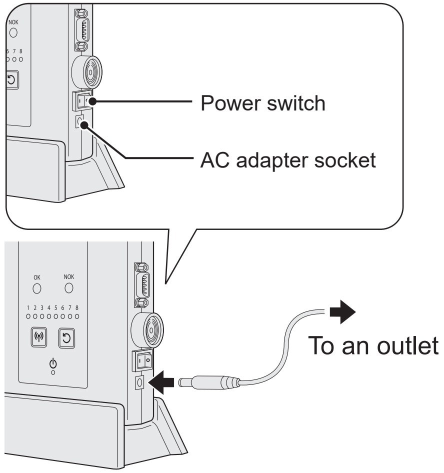
① Connect the supplied AC adapter to the controller and connect the power plug to an outlet.

② Turn the controller’s Power switch on.

* It takes a few tens of seconds to start up.

* During startup, the fastening OK lamp, fastening NOK lamp, and communication lamps (No. 1 to No. 8) blink together.

* Do not connect LAN cables.

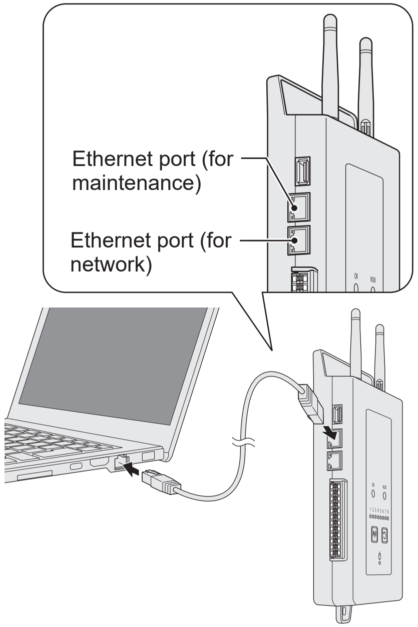

Power switch
AC adapter socket
To an outlet

2 Connect the controller to the PC for configuration with a LAN cable.

① Connect a LAN cable to the Ethernet port of the controller.

* The controller has 2 Ethernet ports: one for maintenance and one for network.
Use the one for maintenance for the first connection.

② Connect to the PC for configuration with the LAN cable.


Ethernet port (for maintenance)
Ethernet port (for network)

3 Start a web browser on the PC for configuration and access the controller.

① Start a web browser on the PC for configuration. (Microsoft Edge is recommended)

② Input the IP address of the controller in the address bar of the web browser.

* The default IP address for the Ethernet port (for maintenance) is "192.168.20.10".

> In the address bar of the web browser, input "http://192.168.20.10/controller" to access.
> * Inputting "192.168.20.10/controller" only also allows for access.

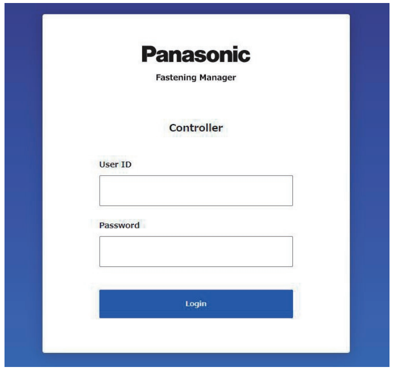
* For how to access via the Ethernet port (for network), see "Connecting via Network". **Refer to P21**

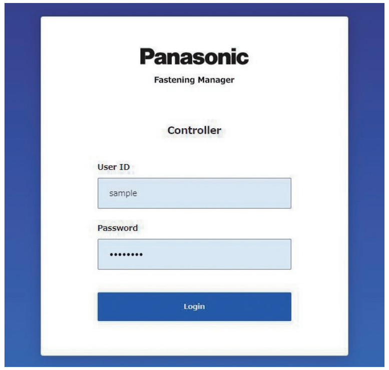
* The IP address should also be set on the PC for configuration.

③ In the displayed login screen, input the user ID and password.

* The user ID and password for the initial login are shown below.

④ The top page (the initial page of the setting screen) is displayed.


Panasonic
Fastening Manager
Controller
User ID
Password
Login


Panasonic
Fastening Manager
Controller
Login

User ID: sample

Password: ••••••••

User ID and password for the initial login

Log in with the user ID and password below.

- **User ID:** **root**
- **Password:** **abcABC123**

* The account type for the initial login is "default". For the account types, see "Account Types (Authorities)". **Refer to P19**

* Only account creation is possible when you log in with the user ID and password above. Create a new account before starting use.

* For security, changing the password above is recommended after the initial login.

Account Types (Authorities)

Below are the account types. Use them according to the applications.

Account Type	Function
Default	• For the initial login. **Refer to P18** Adding or changing a user account.
Administrator	• Viewing the fastening history. • Configuring the controller. • Configuring tools. • Adding or changing a user account. * Create at least one administrator account.
General	• Viewing the fastening history (including viewing the work monitor).

Up to 10 accounts can be registered.
Thus, more than one operator can log in simultaneously.

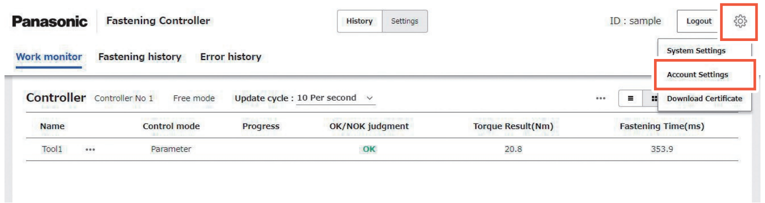
* Only one account can log in as administrator at the same time. When multiple accesses are attempted, the last session takes priority.

Creating a User Account

Create a new account before starting use.

1 In the top page (the initial page of the setting screen), click the option key on the upper right and select "Account Settings".

The "Account Settings" screen is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history

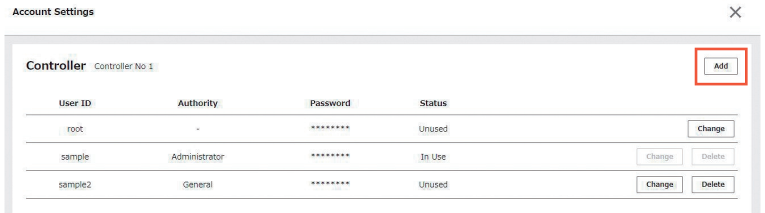
Controller Controller No 1 Free mode Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 In the "Account Settings" screen, click [Add].

The "Add account" screen is displayed.

- Click [Change] to change the account and [Delete] to delete the account.


Account Settings
Add

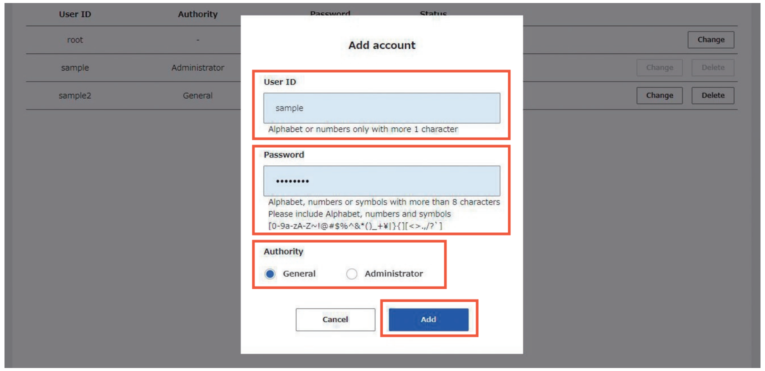
Controller Controller No 1

User ID	Authority	Password	Status	
root	-	********	Unused	Change
sample	Administrator	********	In Use	Change Delete
sample2	General	********	Unused	Change Delete

3 Input “User ID” and “Password”, select “Authority”, and click [Add].

* Create an administrator account to configure tools.

* For a password, always use a combination of 3 or more types from upper case, lower case, number, and symbol.



User ID	Authority	Password	Status	
root	-			Change
sample	Administrator			Change Delete
sample2	General			Change Delete

Add account

User ID: sample

Alphabet or numbers only with more 1 character

Password: ••••••••

Alphabet, numbers or symbols with more than 8 characters
Please include Alphabet, numbers and symbols
[0-9a-zA-Z~!@#$%^&*()_+¥|}{][<>.,/?`]

Authority: ● General ○ Administrator

[Reference] If you lost the user ID or password

■ General account

[Method 1] Log in as administrator and make changes to the account concerned.
* A general user cannot change the user ID and password and needs to ask an administrator to change them.

[Method 2] Log in with a newly created administrator account and make changes to the account concerned.
* Log in with the user ID and password for the initial login and create a new administrator account. **Refer to P18**

■ Administrator account

A) When multiple administrator accounts have been created

[Method 1] Log in with another administrator account and make changes to the account concerned.

[Method 2] Log in with a newly created administrator account and make changes to the account concerned.
* Log in with the user ID and password for the initial login and create a new administrator account. **Refer to P18**

[Method 3] Initialise the settings if you lost IDs and passwords of all administrator accounts. **Refer to P79**

B) When only one administrator account has been created

[Method 1] Log in with a newly created administrator account and make changes to the account concerned.
* Log in with the user ID and password for the initial login and create a new administrator account. **Refer to P18**

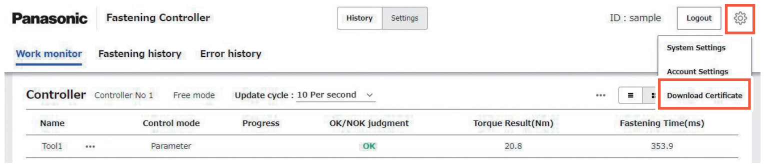
[Method 2] Initialise the settings if you lost IDs and passwords of all administrator accounts. **Refer to P79**

Obtaining a Certificate

A certificate is necessary to access the controller via the Ethernet port (for network). You can obtain a certificate as below.

1 In the top page (the initial page of the setting screen), click the option key on the upper right and select “Download Certificate”.

A certificate datum is downloaded to the PC for configuration.

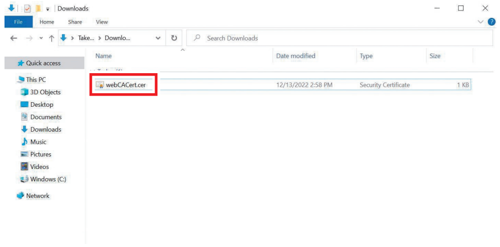

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
System Settings
Account Settings
Download Certificate

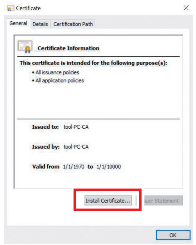
Controller Controller No 1 Free mode Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

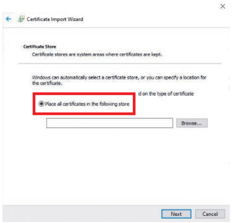
2 Install the certificate in the “PC for configuration used to access the controller via network”.

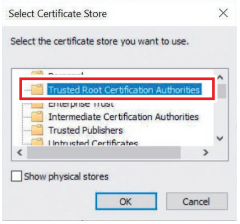
① Double-click the downloaded certificate datum and select “Install Certificate”.


Downloads
webCACert.cer
12/13/2022 2:58 PM
Security Certificate
1 KB


Certificate
Certificate Information
Issued to: tool-PC-CA
Issued by: tool-PC-CA
Valid from 1/1/1970 to 1/1/10000
Install Certificate...
OK

② Select “Place all certificates in the following store” and then select “Trusted Root Certification Authorities”.


Certificate Import Wizard
Certificate Store
Place all certificates in the following store
Browse...
Next
Cancel


Select Certificate Store
Select the certificate store you want to use.
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
Show physical stores
OK
Cancel

Connecting via Network

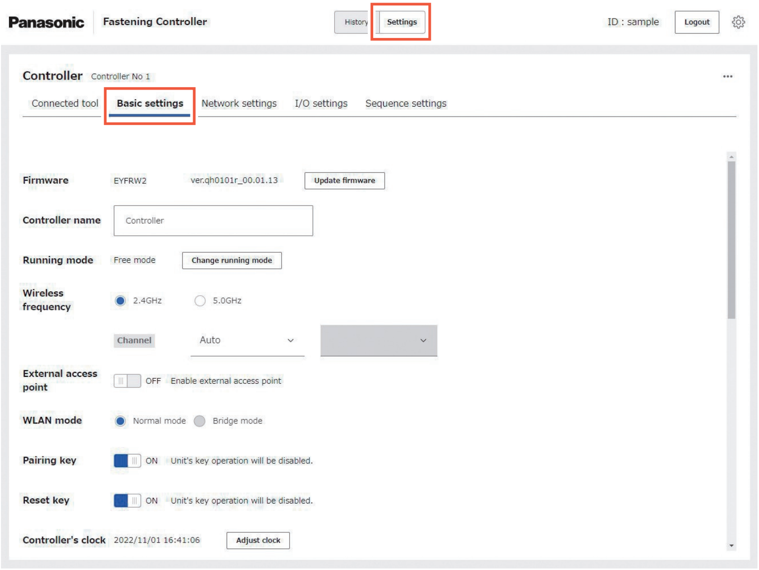
In the address bar of the web browser, input “https://XXX.XXX.XXX.XXX/controller” to connect the controller via the Ethernet port (for network).

* “XXX.XXX.XXX.XXX” is an IP address.

* The default IP address is “192.168.0.10”. If you changed the default address, input the changed one. **Refer to P26**

Basic settings

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Basic settings” tab.
You can configure the controller.

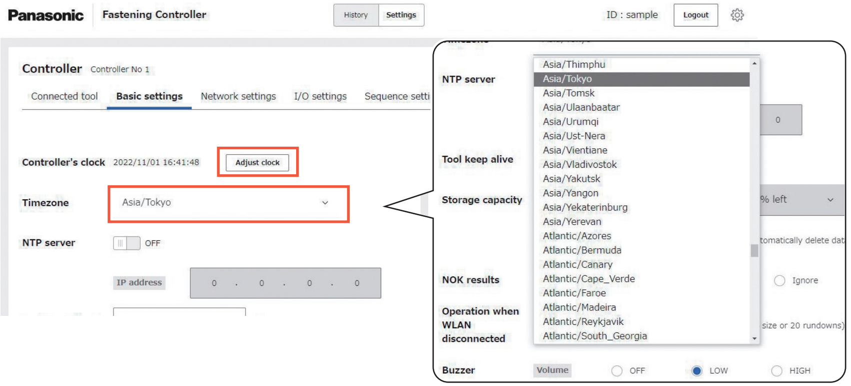

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode
Wireless frequency ● 2.4GHz ○ 5.0GHz
Channel Auto
External access point OFF Enable external access point
WLAN mode ● Normal mode ○ Bridge mode
Pairing key ON Unit's key operation will be disabled.
Reset key ON Unit's key operation will be disabled.
Controller's clock 2022/11/01 16:41:06

Time setting

Select “Timezone” and then click [Adjust clock].
The time is updated.

- The time is not set yet at the time of shipment. Be sure to set the time when you use the controller for the first time.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence setti
Adjust clock
Asia/Thimphu
Asia/Tokyo
Asia/Tomsk
Asia/Ulaanbaatar
Asia/Urumqi
Asia/Ust-Nera
Asia/Vientiane
Asia/Vladivostok
Asia/Yakutsk
Asia/Yangon
Asia/Yekaterinburg
Asia/Yerevan
Atlantic/Azores
Atlantic/Bermuda
Atlantic/Canary
Atlantic/Cape_Verde
Atlantic/Faroe
Atlantic/Madeira
Atlantic/Reykjavik
Atlantic/South_Georgia
Tool keep alive
Storage capacity
% left
tomatically delete dat
NOK results
Ignore
Operation when WLAN disconnected
size or 20 rundowns)

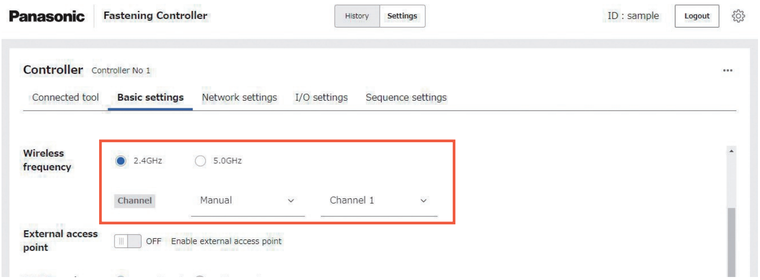
Controller's clock 2022/11/01 16:41:48
Timezone Asia/Tokyo
NTP server OFF
IP address 0 . 0 . 0 . 0
Buzzer Volume ○ OFF ● LOW ○ HIGH

* If you use an NTP server, input the IP address.

Radio frequency and channel setting

You can set the frequency to use.
Select “2.4GHz” or “5GHz” and then the channel to use.

* Selectable channels differ between “2.4GHz” and “5GHz”.
* You can set “Auto Channel”.
  The controller automatically selects available channels in the surrounding environment when it turns on.
  The setting may be effective against radio interference.
* When installing multiple controllers close to each other, do not set adjacent channels.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Wireless frequency ● 2.4GHz ○ 5.0GHz
Channel Manual Channel 1
External access point OFF Enable external access point

Setting items

Firmware

The firmware version of the controller is displayed.
Click [Update firmware] to update the firmware.
For how to update, see “Updating the Firmware”. **Refer to P81**

Controller name

You can register the controller’s name.
Use a maximum of 32 alphanumeric characters.

[Default]	Controller
[Setting range]	Up to 32 alphanumeric characters

* For symbols, only “-” (hyphen), “_” (underscore), and “ ” (half-width space) can be used.

Running mode

Select the running mode of the controller.

[Default]	Free mode
[Setting range]	Free mode / Repeat mode (Basic mode / Sequence mode) / External control mode

Wireless frequency

Select the frequency channel to use for wireless communication.

[Default]	2.4GHz
[Setting range]	2.4GHz (Auto / Channel 1 to 13) / 5GHz (Auto / Channel 36, 40, 44, 48)

External access point

You can enable communication via an external access point. Refer to P63

[Default] OFF (disabled)
[Setting range] OFF (disabled) / ON (enabled)

* WLAN mode: This setting is for operation without using an external access point.
Normal mode: When not managing tool’s IP addresses (automatic assignment)
Bridge mode: When managing (specifying) tools’ IP addresses

Pairing key

You can enable the Pairing key.

[Default] ON (enabled)
[Setting range] OFF (disabled) / ON (enabled)

Reset key

You can enable the Reset key.

[Default] ON (enabled)
[Setting range] OFF (disabled) / ON (enabled)

Controller's clock

Set the controller’s clock.
Click [Adjust clock] to update the time.

Timezone

You can set a desired time zone when adjusting the controller’s clock.

NTP server

Set an NTP server if you use automatic clock adjustment.

Tool keep alive

Set the time interval when the controller checks availability of tools in the wireless communication mode.
Tools not responding are detected as offline and then disconnected.

[Default] 30 s
[Setting range] 10 s to 3600 s

Storage capacity

Enable or disable notification of low storage capacity and set the behaviour in case of capacity shortage.

[Default] Notification - OFF,
Operation when capacity is insufficient - Automatically delete data
[Setting range] Notification - OFF/ON (remaining capacity 10/20/30/40/50%),
Operation when capacity is insufficient - Suspend operation / Automatically delete data

The default setting is “Automatically delete data”.
Consider well how to handle data before selecting “Suspend operation” as necessary.

NOK results

Select how to handle the fastening failure results.

[Default] Store data only
[Setting range] Report to system / Store data only / Ignore

Operation when WLAN disconnected

Select the behaviour in case of temporary disruption of wireless communication.

[Default] Suspend tool
[Setting range] Suspend tool / Enable fastening (Until batch size or 20 rundowns)
For details, see “TOOLS’ BEHAVIOUR WITH WIRELESS COMMUNICATION DISCONNECTED”. Refer to P70

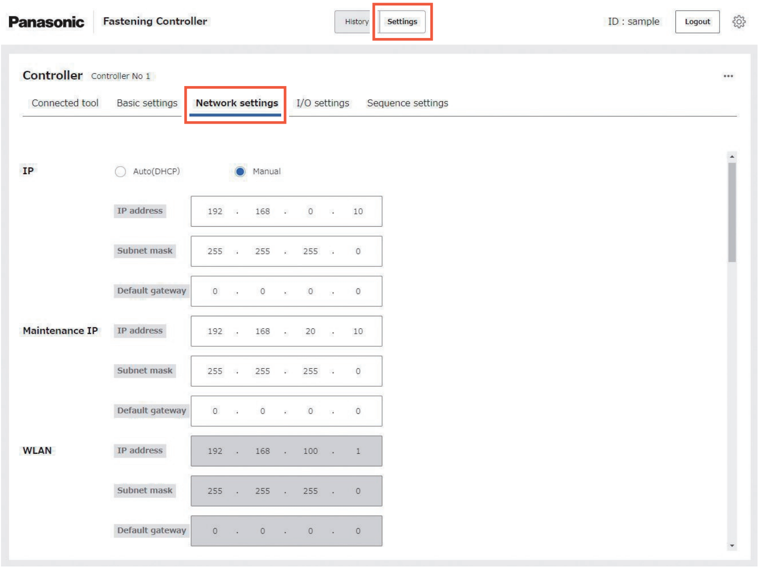
Buzzer

Select the volume and meaning of the buzzer.

[Default] Volume - LOW,
Beep - All checked
[Setting range] Volume - OFF/LOW/HIGH,
Beep - Check or uncheck each item

Network Settings

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Network settings” tab.
You can make network settings of the controller.



IP ○ Auto(DHCP) ● Manual

IP address 192 . 168 . 0 . 10
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0

Maintenance IP
IP address 192 . 168 . 20 . 10
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0

WLAN
IP address 192 . 168 . 100 . 1
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0

■ Setting items

IP

Set the IP address of the Ethernet port (for network).

[Default] Manual
[Setting range] Auto (DHCP) / Manual

* For “Manual”

[Default] IP address - 192.168.0.10
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

Maintenance IP

Set the IP address of the Ethernet port (for maintenance).

[Default] IP address - 192.168.20.10
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

WLAN

Set the IP address (on the controller’s side) for wireless communication with tools.

[Default] IP address - 192.168.100.1
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

Atlas Open Protocol

Set the parameters related to Atlas Open Protocol.
For details, see “Connecting via Open Protocol Communication”. **Refer to P57**

Access point

Set the internal access point for wireless communication with tools.

[Default] SSID - Controller’s model number-MAC address
Security - WPA2
[Setting range] SSID - A maximum of 32 alphanumeric characters
Security - WPA2

External access point

Set the external access point to use.

[Default] SSID - Blank
Security - Blank
Password - Blank
[Setting range] SSID - A maximum of 32 alphanumeric characters
Security - Open/WPA2
Password - 8 to 63 alphanumeric characters

* For symbols, only “"”, “¥”, “,”, and “‘ (back quote)” can be used.
* The option is enabled only when “External access point” has been set to “ON” in the basic setting.

- For the IP addresses for “IP” and “Maintenance IP”, do not use the same subnet. (When you set a default value (255.255.255.0) in “Subnet mask”, set different values in the part corresponding to “192.168.0” or “192.168.20”.)

PAIRING WITH A TOOL

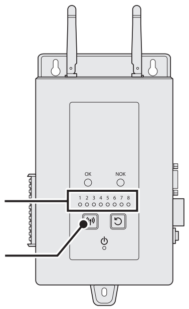
Starting the Pairing Mode on the Controller

You can put the controller in the pairing mode by “Using the key on the unit” or “Setting in the setting screen”.
During 2 minutes of the pairing mode, start the pairing mode on a tool within the coverage to automatically establish pairing.
If pairing is not established within the time, the pairing mode will end.

* After you attempt to start pairing, it may take some time until the controller enters the pairing mode.

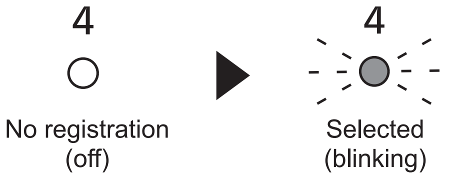
■ Using the key on the unit

Use the Pairing key on the controller unit.
Select the communication lamp of the number with no registration (lamp off) and hold the pairing key down to enter the pairing mode.
See the following procedure for details.

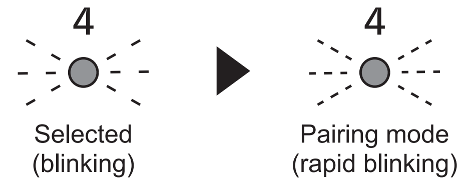

Communication lamp
Pairing key

(To register Tool No. 4)

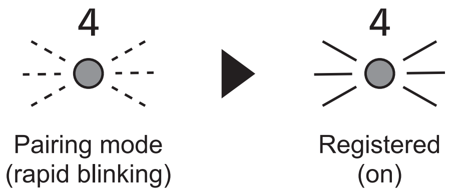
1 **Press the Pairing key on the controller 4 times to select Tool No. 4.**
Communication lamp No. 4 blinks.


4
No registration (off)
4
Selected (blinking)

2 **While No. 4 is selected, hold down the Pairing key on the controller to enter the pairing mode of Tool No. 4.**
In the pairing mode, Communication lamp No. 4 starts blinking rapidly.

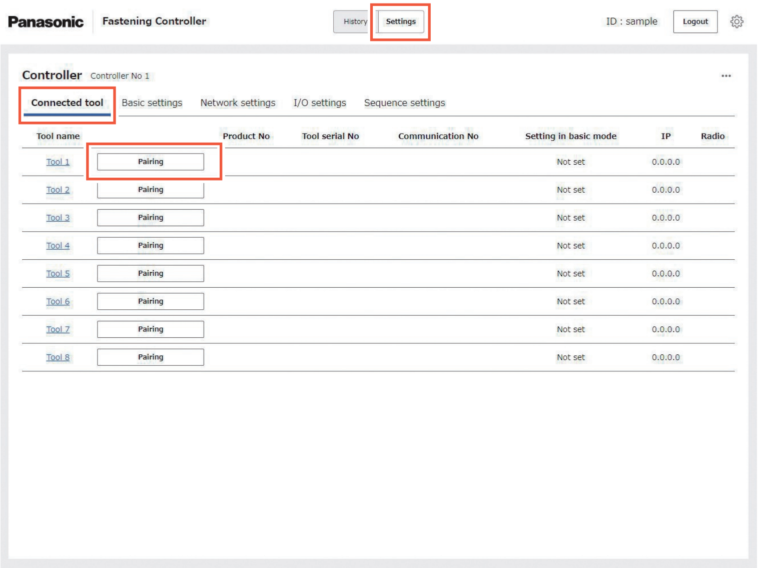

4
Selected (blinking)
4
Pairing mode (rapid blinking)

3 **Operate Tool No. 4 to establish pairing.**
Communication lamp No. 4 stays lit.
For how to operate the tool, see “Starting the Pairing Mode on a Tool”. **Refer to P30**


4
Pairing mode (rapid blinking)
4
Registered (on)

■ Setting in the setting screen

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab.
In the “Connected tool” screen, click [Pairing] of the desired tool number.
After the controller enters the pairing mode, perform the procedure in “Starting the Pairing Mode on a Tool”. **Refer to P30**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Pairing				Not set	0.0.0.0	
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

<For reference> Replacing with a spare tool

When replacing a defective paired tool with a new one with the same model number, cancel pairing **Refer to P30** and then conduct pairing **Refer to P28** so that the fastening parameters and other settings can be automatically transferred.

* To pair with a tool with a different product number, cancel pairing to delete the current pairing information before pairing with it. **Refer to P34**

Display after pairing is completed

After pairing is completed, if the setting screen does not display the information of the paired tool, conduct display update in the setting screen.

* In the “Bridge mode” or when “External access point” is enabled, set the tool’s IP address before starting pairing registration.

Starting the Pairing Mode on a Tool

Put the controller in the pairing mode before starting the pairing mode on a tool.

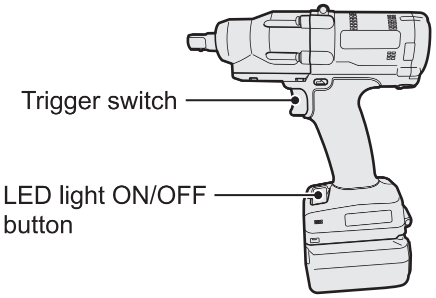
■ Procedure

1 **Set the battery pack. While holding down the LED light ON/OFF button, pull the Trigger switch.**

The tool enters the pairing mode. Wireless communication is automatically established and pairing registration is completed.

* For details, see the tool’s Operating Instructions.

* If pairing fails, cancel pairing on the controller and then try again.

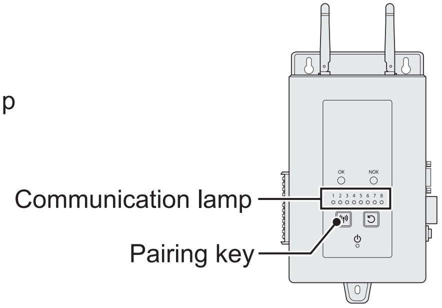

Trigger switch
LED light ON/OFF button

Cancelling Pairing

You can cancel pairing registration on the controller by “Using the key on the unit” or “Setting in the setting screen”.

■ Using the key on the unit

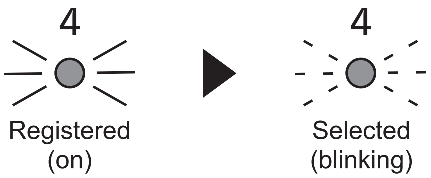
Use the Pairing key on the controller unit.
Select the communication lamp of the tool number you want to cancel registration (lamp on) and hold the pairing key down to cancel pairing registration.
See the following procedure for details.


OK
NOK
1 2 3 4 5 6 7 8
Communication lamp
Pairing key

(To cancel Tool No. 4)

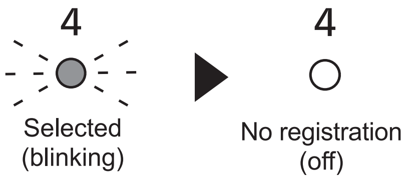
1 **Press the Pairing key on the controller 4 times to select Tool No. 4.**

Communication lamp No. 4 blinks.


4
Registered (on)
4
Selected (blinking)

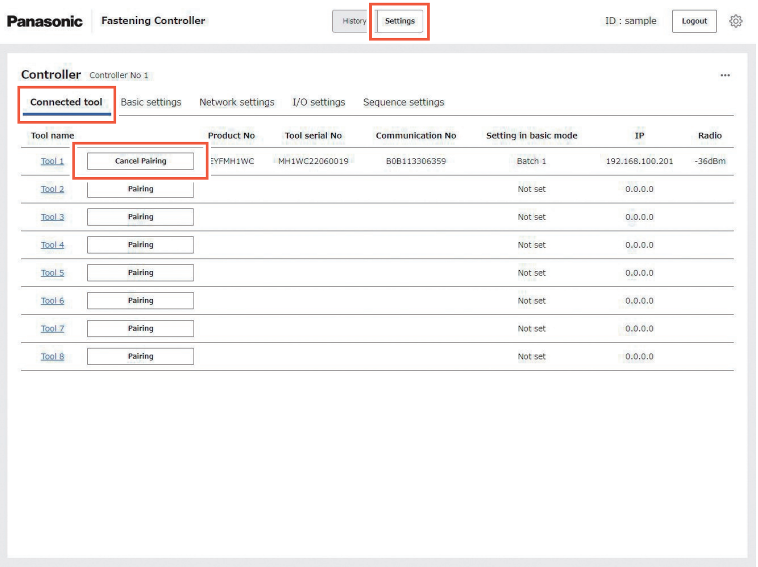
2 **While No. 4 is selected, hold down the Pairing key on the controller to cancel pairing registration of Tool No. 4.**

When pairing is cancelled, Communication lamp No. 4 stops blinking and turns off.


4
Selected (blinking)
4
No registration (off)

■ Setting in the setting screen

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab.
In the “Connected tool” screen, click [Cancel Pairing] of the desired tool number.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

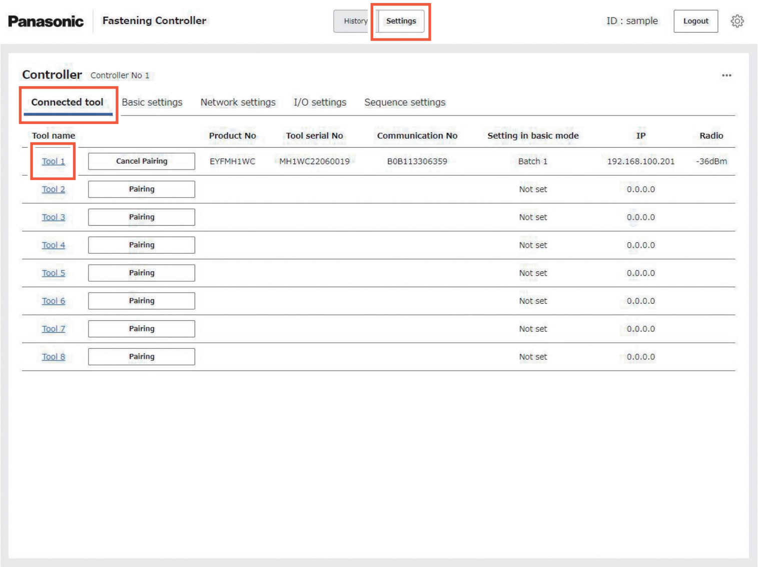
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

* If the controller cannot communicate with the tool due to the tool being turned off or any other reason, check [Force to unpair] in the pairing cancellation confirmation dialogue.

CONFIGURING A TOOL

Displaying the Tool Screen

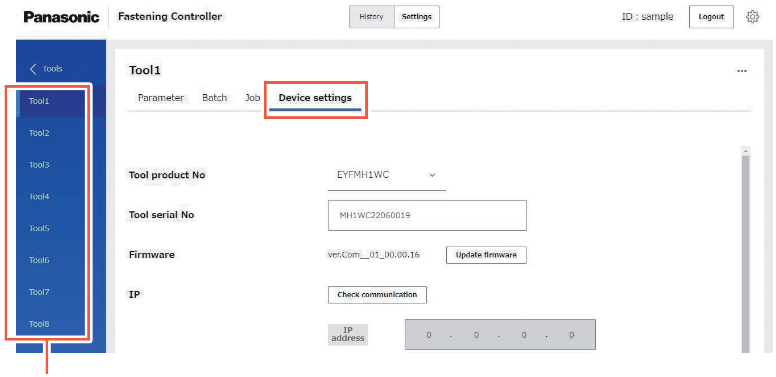
In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab.
In the “Connected tool” screen, click the desired tool number.
The screen for the tool number is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Displaying the Tool Setting Screen

From the “Device settings” tab in the screen for the tool number, you can make basic settings of the tool and enter common parameters.
* To switch the tool, select the desired one from the tool list.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Update firmware
Check communication
IP address

Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16
IP: 0 . 0 . 0 . 0

Tool list

Tool Setting Items

Tool product No

Select the tool product number.

[Default] Blank
[Setting range] Selectable from the pull-down menu

* Automatically selected if you establish pairing beforehand.
* The tool product number cannot be changed after pairing. Cancel pairing and then change it.

Tool serial No

You can set and display the tool’s unit identification.

[Default] 5-digit model ID + 8-digit serial number (2-digit manufacturing year + 2-digit month + 4-digit production lot)
[Setting range] 13 to 16 alphanumeric characters

* The model number may not be recognised correctly if the information is changed. Do not change it unless required by the management rule.

Firmware

The firmware version of the tool’s communication part is displayed.
Click [Update firmware] to update the firmware.
For how to update, see “Updating the Firmware”. **Refer to P81**

IP

Set the IP address (on the tool’s side) for wireless communication with tools.

[Default] IP address - 192.168.100.201 (Tool 1) to 208 (Tool 8)
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

* They all become “0.0.0.0” in the Bridge mode or when “External access point” is enabled.

Tool’s clock

The tool’s clock is displayed. Click [Adjust to controller] to adjust the time.

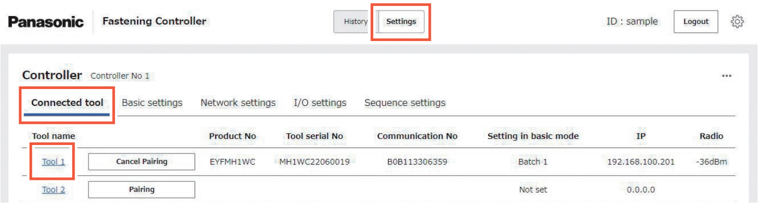
- For other setting items, see the tool’s Operating Instructions.

Deleting the Registration Information

To stop use of a tool or pair a tool with a different product number, delete the pairing information.
* Cancel pairing beforehand.

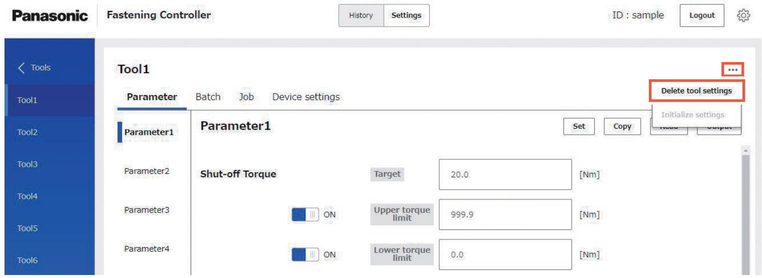
1 **In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Connected tool" tab.**
The "Connected tool" screen is displayed.

2 **In the "Connected tool" screen, click the desired tool number.**
The screen for the tool number is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

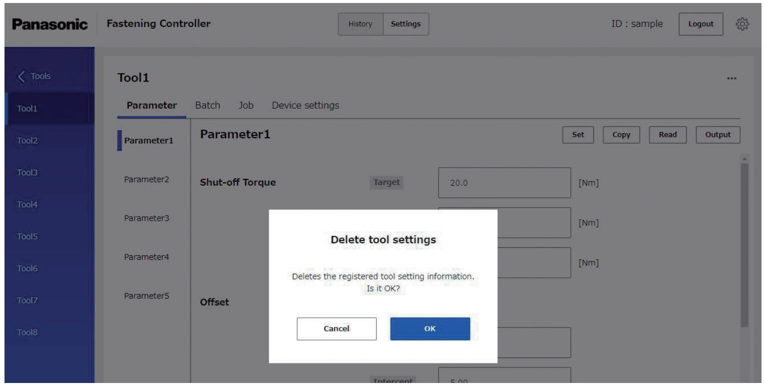
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Click ··· (tool option key) and then [Delete tool settings].**
The "Delete tool settings" screen is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Parameter1
Parameter2
Parameter3
Parameter4
Set
Copy

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]

4 **In the "Delete tool settings" screen, click [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
Offset
Intercept
Cancel
OK

Delete tool settings

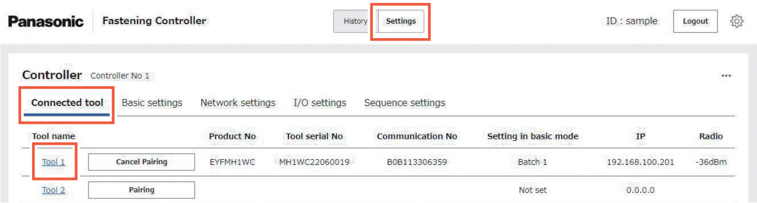
Deletes the registered tool setting information.
Is it OK?

Resetting to Factory Settings

You can reset a tool to its factory settings.
* Resetting cancels pairing.

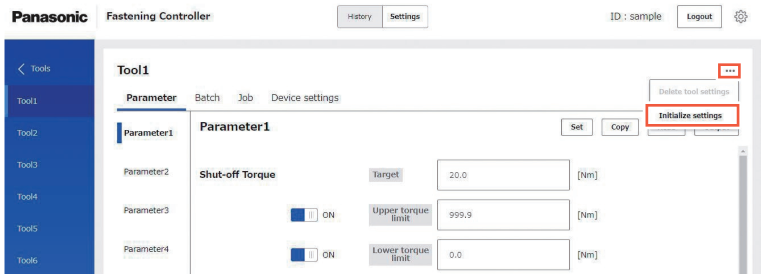
1 **In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Connected tool" tab.**
The "Connected tool" screen is displayed.

2 **In the "Connected tool" screen, click the desired tool number.**
The screen for the tool number is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

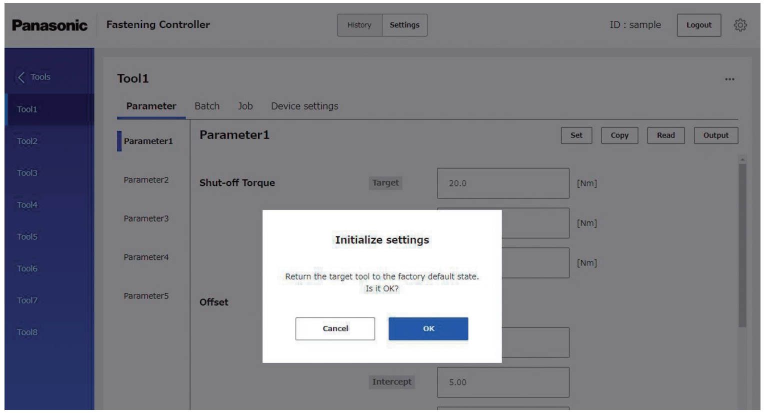
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Click ··· (tool option key) and then [Initialize settings].**
The "Initialize settings" screen is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Parameter1
Parameter2
Parameter3
Parameter4
Set
Copy

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]

4 **In the "Initialize settings" screen, click [OK].**

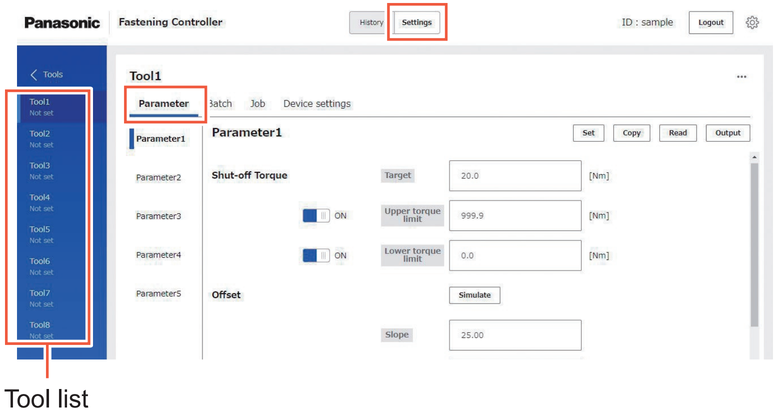

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
Offset
Intercept
Cancel
OK

Initialize settings

Return the target tool to the factory default state.
Is it OK?

Setting Parameters

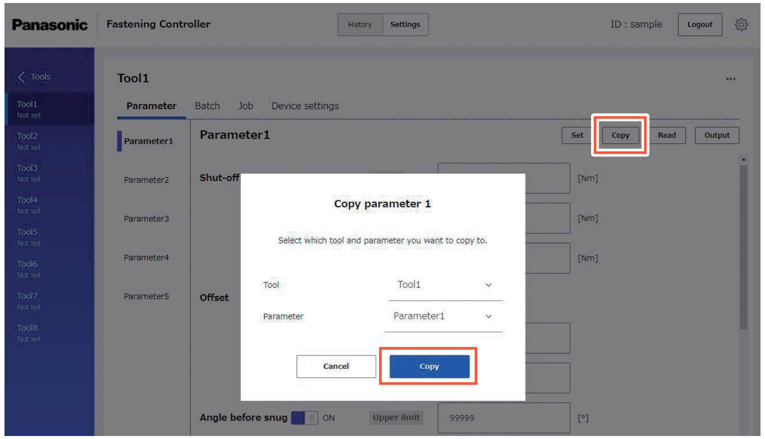
In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab.
In the “Connected tool” screen, click the desired tool number.
In the screen for the tool number, select the “Parameter” tab to make settings.
You can set five parameters (Parameter 1 to 5) for each tool.
* To switch the tool, select the desired one from the tool list.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate
Tool list

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]
Offset
Slope 25.00

Copying Parameters

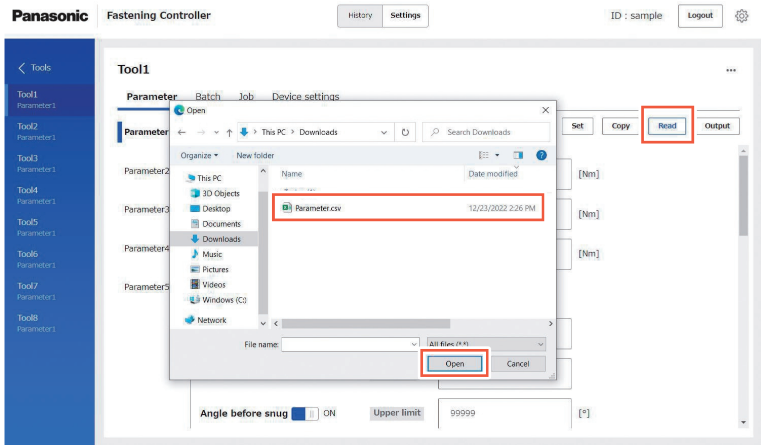
You can copy the set parameter to create a new parameter from it or use it on another tool.
In the “Parameter” tab in the screen for the tool number, click [Copy] to display the screen for copying the parameter. In the screen, select the destination and click [Copy].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off
Offset
Cancel
Copy

Copy parameter 1
Select which tool and parameter you want to copy to.
Tool Tool1
Parameter Parameter1
Angle before snug ON Upper limit 99999 [°]

Loading Parameters

You can register a parameter by loading a parameter file saved in the PC for configuration into the controller.
You can also load a parameter file created with “Tool Manager”.
From the “Parameter” tab in the screen for the tool number, click [Read] and open the parameter file.

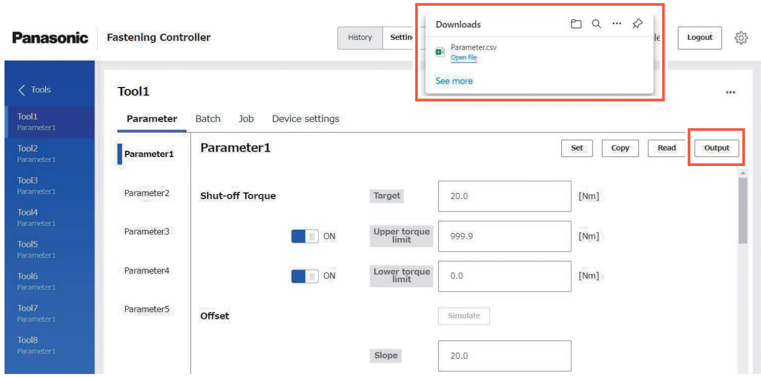

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Parameter1
Tool2 Parameter1
Tool3 Parameter1
Tool4 Parameter1
Tool5 Parameter1
Tool6 Parameter1
Tool7 Parameter1
Tool8 Parameter1
Tool1
Parameter
Batch
Job
Device settings
Parameter
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Open
This PC › Downloads
Search Downloads
Organize
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
Name
Date modified
File name:
All files (*.*)
Open
Cancel

Parameter.csv 12/23/2022 2:26 PM
Angle before snug ON Upper limit 99999 [°]

Exporting Parameters

You can export the created parameter to the PC for configuration.
You can use the exported file as a backup, to copy it to another controller, or to move it to another PC for configuration.
From the “Parameter” tab in the screen for the tool number, click [Output] and save the parameter file.

Do not edit the exported parameter file.
Otherwise it may not be read correctly.


Panasonic
Fastening Controller
History
Settin
Logout
Downloads
Open file
See more
Tools
Tool1 Parameter1
Tool2 Parameter1
Tool3 Parameter1
Tool4 Parameter1
Tool5 Parameter1
Tool6 Parameter1
Tool7 Parameter1
Tool8 Parameter1
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

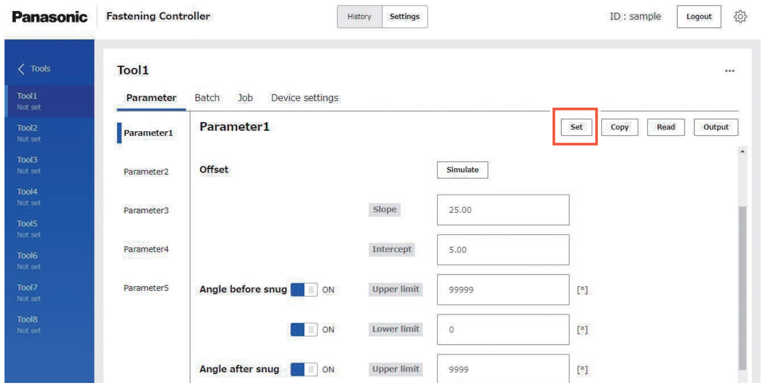
Parameter.csv
Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]
Offset
Slope 20.0

Registering Parameters

Register a parameter to use it to control a tool in “Free mode” of the controller’s running mode.

* It is not used in “Repeat mode” and “External control mode”.
(For “Free mode”, “Repeat mode”, and “External control mode”, see “Setting the Running Mode”. **Refer to P45**

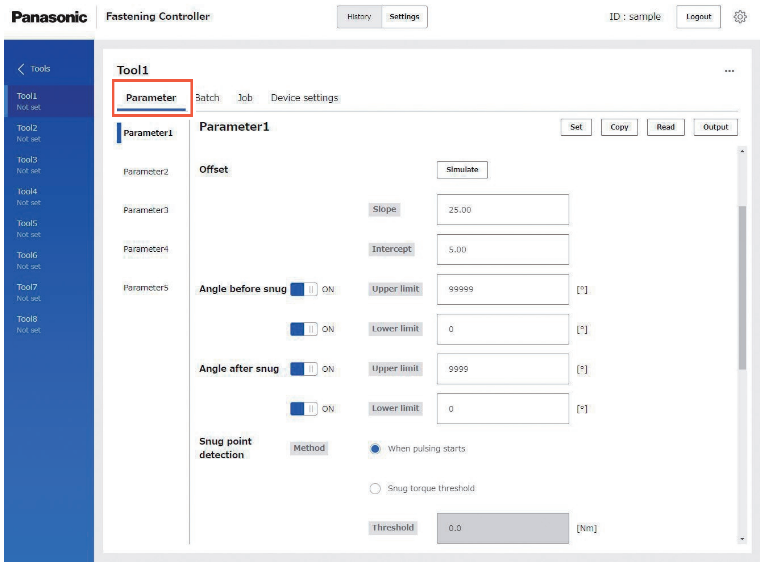
From the “Parameter” tab in the screen for the tool number, click [Set].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]

Parameter Items

Set the fastening parameter items.
For details, see the tool’s Operating Instructions.

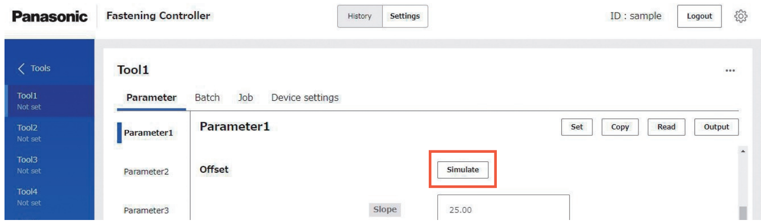

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]
ON Lower limit 0 [°]
Snug point detection Method ● When pulsing starts
○ Snug torque threshold
Threshold 0.0 [Nm]

■ Setting an offset (Parameter, reference ①)

Set an offset to match the torque output value with the actual measured value.

1 **From the “Parameter” tab in the screen for the tool number, click [Simulate] in “Offset”.**
The “Offset” page is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00

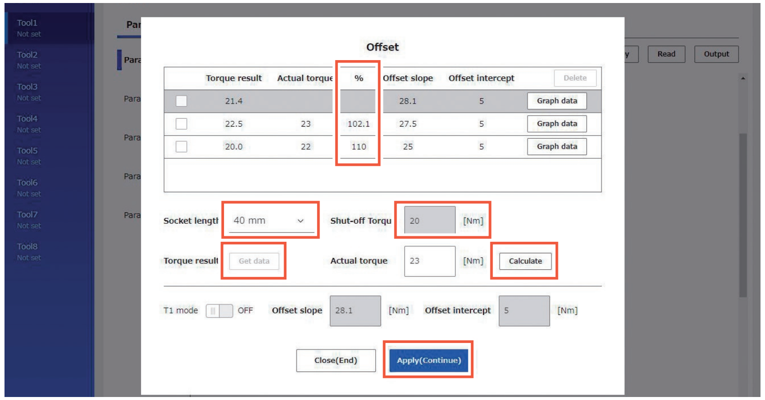
2 **Input a value to set and click [Apply].**
Input “Socket length” and “Shut-off Torque”.
Click [Apply] to send the input values to the tool.
The tool enters the offset mode (shown as T2).

3 **Conduct actual work using the tool and then click [Get data].**
A fastening history log is added to the history list in the “Offset” page.
* Although the tool becomes ready for fastening (“C mode”) after you click [Get data], do not start normal fastening until offset setting is completed.

4 **While the obtained fastening history log is selected, input an actual measured torque (refastening) value and click [Calculate].**
An offset to match the output torque with the actual measured torque of the tool is automatically calculated.

5 **Confirm that the offset is updated and click [Apply].**
The adjusted value is sent to the tool.

6 **Repeat steps 3 to 5 until the difference becomes sufficiently small.**
* Keep the values in the “%” column within the range of 95% to 105%.

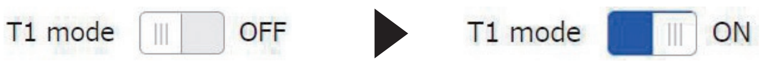

Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Read
Output
Delete
Graph data
Get data
Calculate
Close(End)
Apply(Continue)

Offset

	Torque result	Actual torque	%	Offset slope	Offset intercept	
☐	21.4			28.1	5	Graph data
☐	22.5	23	102.1	27.5	5	Graph data
☐	20.0	22	110	25	5	Graph data

Socket length 40 mm
Shut-off Torque 20 [Nm]
Torque result
Actual torque 23 [Nm]
T1 mode OFF
Offset slope 28.1 [Nm]
Offset intercept 5 [Nm]

[About T1 mode]
Checking [T1 mode] in the offset setting screen puts the controller in the minimum output mode.
(Unchecking [T1 mode] returns the controller to “Offset Mode”.)


T1 mode
OFF
T1 mode
ON

T1 mode
[Description] You can check whether torque control works successfully when the target torque is close to the lower limit of the controller’s torque control range. In this mode, the controller is shut off at the minimum counts per minute (minimum output). At the time, the work history log is not stored. After working in this mode, use a torque gauge or torque wrench to confirm that the controller’s output torque has not exceeded the target torque. The controller unit may not be usable for some work if its output torque exceeds the target torque in this mode.

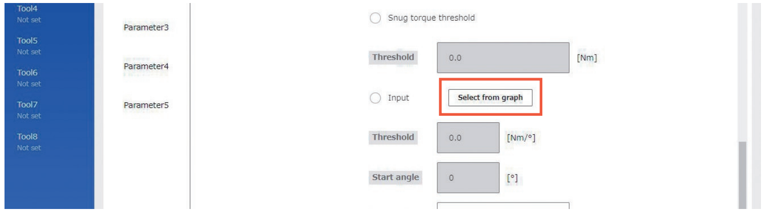
* Fastening by other tools is suspended while you are setting an offset.

■ Setting a snug point (Parameter, reference ②)

You can set a snug point based on a waveform.

1 From the “Parameter” tab in the screen for the tool number, click [Select from graph] in “Snug point detection”.

- The “Snug point detection” screen is displayed showing the current waveform of the tool.
- Fastening history data are necessary for reference. Make this setting after at least one time of fastening.
- You can switch the waveform to use with arrows (①).


Tool4
Not set
Tool5
Not set
Tool6
Not set
Tool7
Not set
Tool8
Not set
Parameter3
Parameter4
Parameter5
○ Snug torque threshold
○ Input
Select from graph

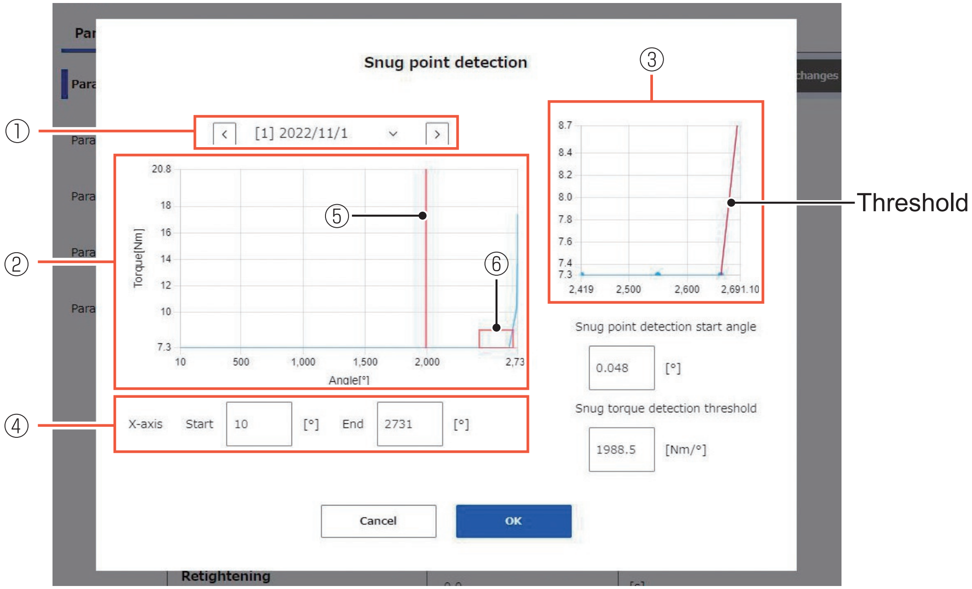
Threshold 0.0 [Nm]

Threshold 0.0 [Nm/°]

Start angle 0 [°]

2 Set a threshold in the graph.

- The main window (②) shows an entire waveform and the subwindow (③) enlarges a specific part from the entire waveform.
- You can change the range of waveform shown in the main window by inputting the start and end angles in “X-axis” (④) below the graph.
- You can set the snug point detection start angle (⑤) by moving the vertical bar.
- Adjust the position of the selection frame (⑥) in the main window to change the display range of the subwindow.
- Select a threshold to set in the subwindow (③).


Snug point detection
①
②
③
④
⑤
⑥
Threshold
[1] 2022/11/1
20.8
18
16
14
12
10
7.3
Torque[Nm]
10
500
1,000
1,500
2,000
2,73
Angle[°]
8.7
8.4
8.2
8.0
7.8
7.6
7.4
7.3
2,419
2,500
2,600
2,691.10
Cancel
OK
Retightening
Par
Para
changes

X-axis Start 10 [°] End 2731 [°]

Snug point detection start angle 0.048 [°]

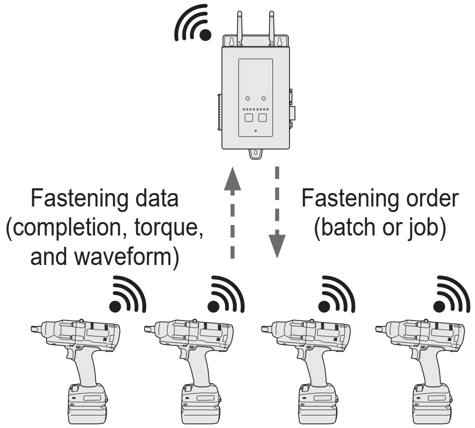
Snug torque detection threshold 1988.5 [Nm/°]

SETTING THE FASTENING CONTROL MODE

Controlling Fastening by Tools

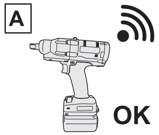
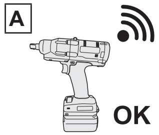
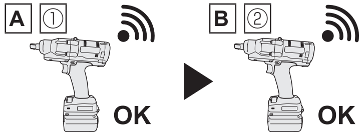
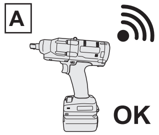
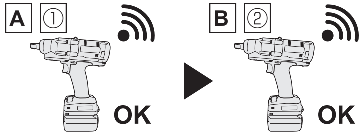
The controller can control up to 8 connected tools for fastening.
It receives fastening data of each fastening job and counts up the fastened quantity.

Maximum number of connected devices: 8



Typical Fastening Control Combinations

You can create different combinations of fastening control settings. See typical combinations as below.

<table>
<tr><th rowspan="2">Mode</th><th rowspan="2">[Free mode]</th><th colspan="2">[Repeat mode]</th></tr>
<tr><th>[Basic mode]</th><th>[Sequence mode]</th></tr>
<tr><td>Pass criterion</td><td>–
(The quantity is not specified)</td><td>Fastening the target quantity is completed</td><td>Tools complete fastening the respective target quantities in the specified order</td></tr>
<tr><td>[Batch]
“Single set value”
(Fastening in the same condition)
* Single type of workpiece</td>
<td>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>10 Nm</td><td>∞</td></tr></table>
Parameter</td>
<td>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>
Batch</td>
<td>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>20 Nm</td><td>5</td></tr></table>
Batch and Sequence</td></tr>
<tr><td>[Job]
Multiple set values
(Fastening in different conditions)
* Multiple types of workpiece</td>
<td></td>
<td>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>
Job</td>
<td>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>
<table><tr><th>Set value</th><th>Target quantity</th></tr><tr><td>20 Nm</td><td>5</td></tr><tr><td>30 Nm</td><td>10</td></tr></table>
Job and Sequence</td></tr>
<tr><td>Remark</td><td>–</td><td>* A job can contain up to 10 steps.</td><td>* A sequence can contain up to 10 steps.</td></tr>
</table>

Number of Combinations That Can Be Registered

See the number of combinations that can be registered in the controller as below.

Controller's mode		Tool's setting	Number of Combinations That Can Be Registered
Free mode		**Parameter**	○ 5 combinations per tool
Repeat mode	**Basic mode (Independent control)**	**Batch**	○ 5 combinations per tool
		Job	○ 5 combinations per tool
	Sequence mode (Sequential control)	**Batch/Job**	○ 5 combinations
External control mode		–	○

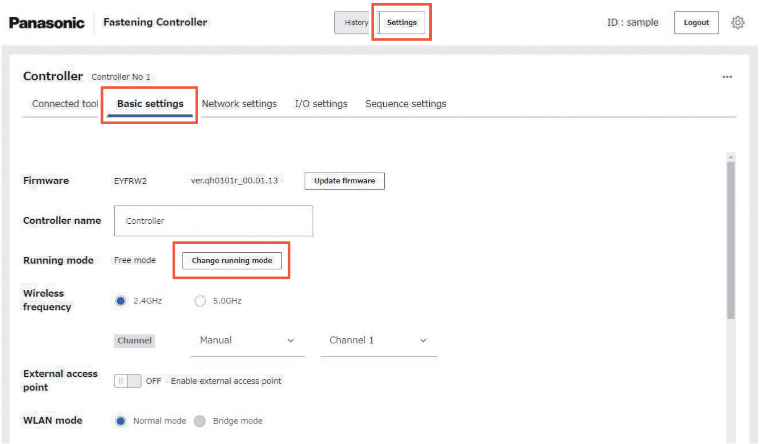
Setting the Running Mode

Set the running mode of the controller as below.

1 **In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Basic settings" tab.**

2 **In the "Basic settings" tab, click [Change running mode].**

The "Change running mode" screen is displayed.



Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Channel
Enable external access point

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name: Controller

Running mode: Free mode

Wireless frequency: ● 2.4GHz ○ 5.0GHz

Channel: Manual, Channel 1

External access point: OFF

WLAN mode: ● Normal mode ● Bridge mode

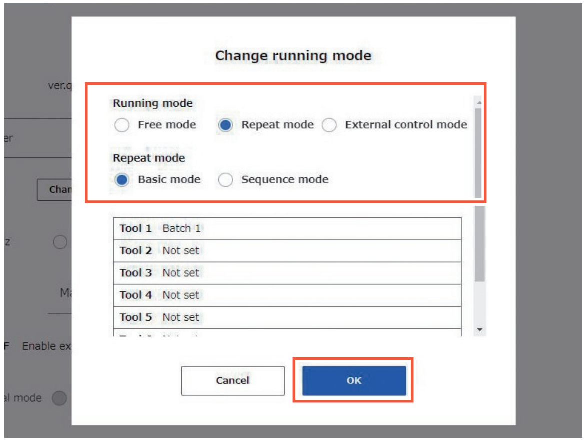
3 **Select a "Running mode" and click [OK].**

The running mode is set.

Select a running mode from "Free mode", "Repeat mode", and "External control mode".

For "Repeat mode", select "Basic mode" or "Sequence mode".

Refer to P46 to 49



Change running mode
Cancel
OK

Running mode

○ Free mode ● Repeat mode ○ External control mode

Repeat mode

● Basic mode ○ Sequence mode

Tool 1	Batch 1
Tool 2	Not set
Tool 3	Not set
Tool 4	Not set
Tool 5	Not set

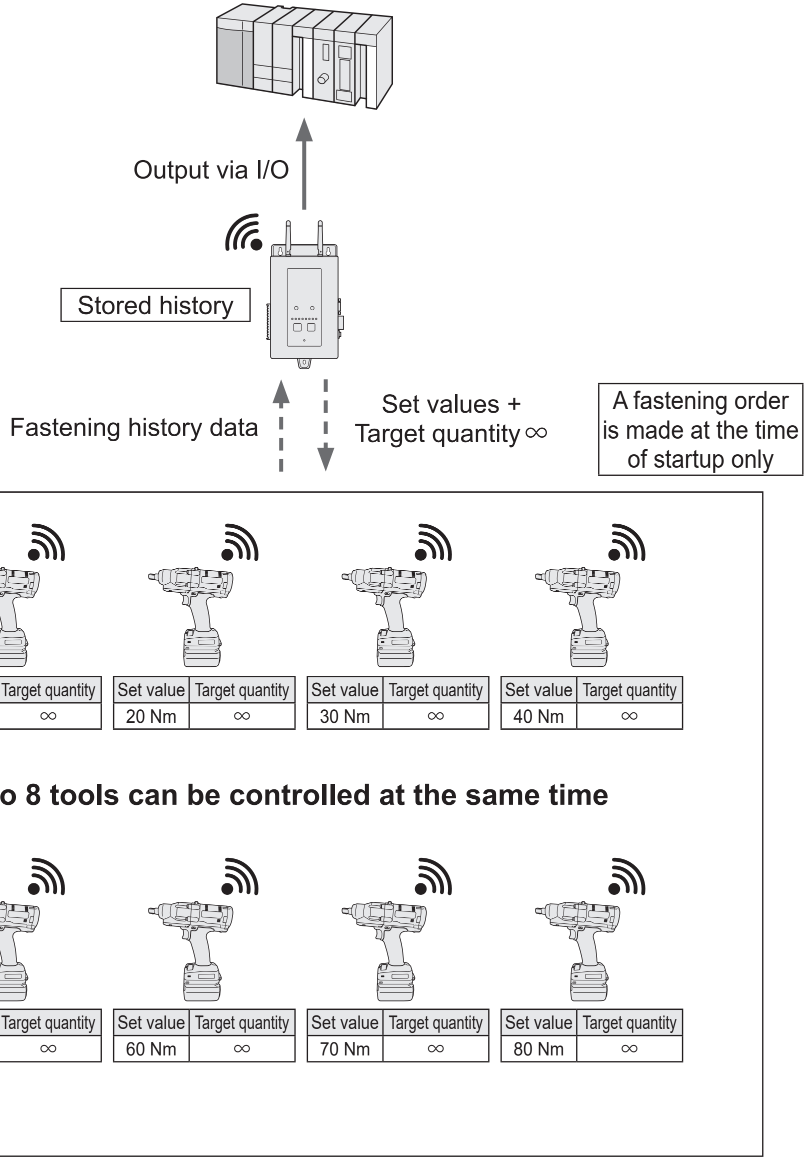
* Register "Parameter" before setting to "Free mode".

* Register a "Batch/Job" before setting to "Repeat mode".

SETTING THE FASTENING CONTROL MODE (cont.)

■ Free mode

This mode allows for unconditional fastening without specifying the quantity to fasten.
Tools use pre-registered parameters for fastening.
Up to 8 tools can conduct independent operation.
The I/O output settings are enabled.
* Use the mode when the fastened quantity is counted by an external device.


Output via I/O
Stored history
Fastening history data
Set values +
Target quantity ∞
A fastening order
is made at the time
of startup only
Up to 8 tools can be controlled at the same time

Set value	Target quantity
10 Nm	∞

Set value	Target quantity
20 Nm	∞

Set value	Target quantity
30 Nm	∞

Set value	Target quantity
40 Nm	∞

Set value	Target quantity
50 Nm	∞

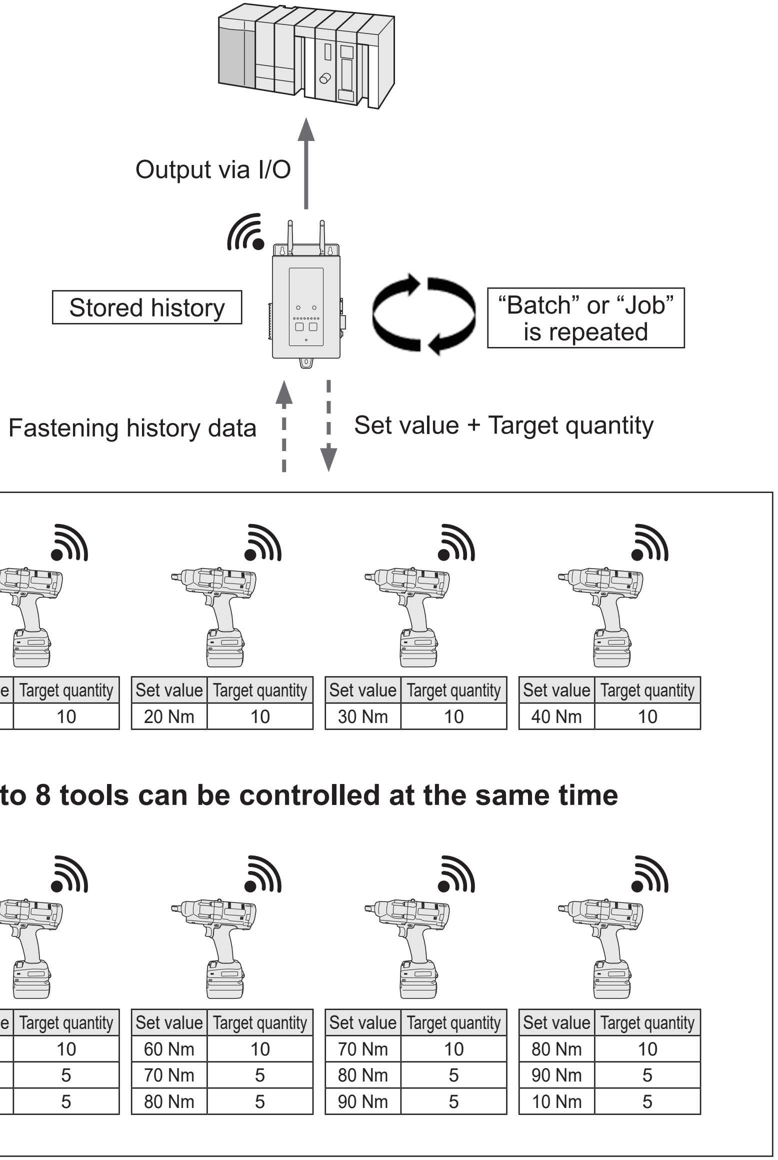
Set value	Target quantity
60 Nm	∞

Set value	Target quantity
70 Nm	∞

Set value	Target quantity
80 Nm	∞

■ Repeat mode (Basic mode)

This mode repeats a “Batch” or “Job” process.
Tools use pre-registered “Batch” or “Job” settings for fastening.
Up to 8 tools can conduct independent operation.
The I/O output settings are enabled.


Output via I/O
Stored history
“Batch” or “Job”
is repeated
Fastening history data
Set value + Target quantity
Up to 8 tools can be controlled at the same time

Set value	Target quantity
10 Nm	10

Set value	Target quantity
20 Nm	10

Set value	Target quantity
30 Nm	10

Set value	Target quantity
40 Nm	10

Set value	Target quantity
50 Nm	10
60 Nm	5
70 Nm	5

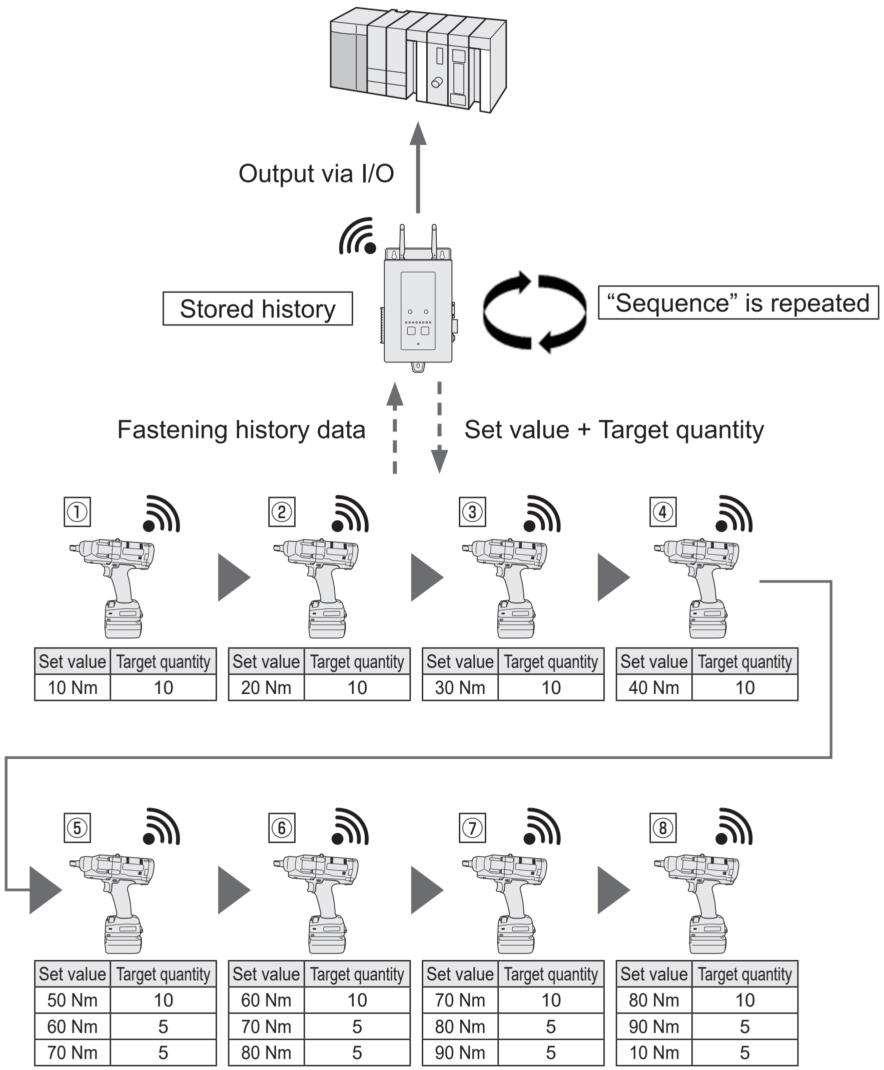
Set value	Target quantity
60 Nm	10
70 Nm	5
80 Nm	5

Set value	Target quantity
70 Nm	10
80 Nm	5
90 Nm	5

Set value	Target quantity
80 Nm	10
90 Nm	5
10 Nm	5

■ Repeat mode (Sequence mode)

This mode repeats a “Sequence” process where available tools are controlled in order. Tools use pre-registered “Sequence” settings for sequential fastening.
Up to 10 steps can be set. A sequence supports up to 8 tools but allows only one tool to operate at a time.
The I/O output settings are enabled.


Output via I/O
Stored history
“Sequence” is repeated
Fastening history data
Set value + Target quantity
①
②
③
④
⑤
⑥
⑦
⑧

①

Set value	Target quantity
10 Nm	10

②

Set value	Target quantity
20 Nm	10

③

Set value	Target quantity
30 Nm	10

④

Set value	Target quantity
40 Nm	10

⑤

Set value	Target quantity
50 Nm	10
60 Nm	5
70 Nm	5

⑥

Set value	Target quantity
60 Nm	10
70 Nm	5
80 Nm	5

⑦

Set value	Target quantity
70 Nm	10
80 Nm	5
90 Nm	5

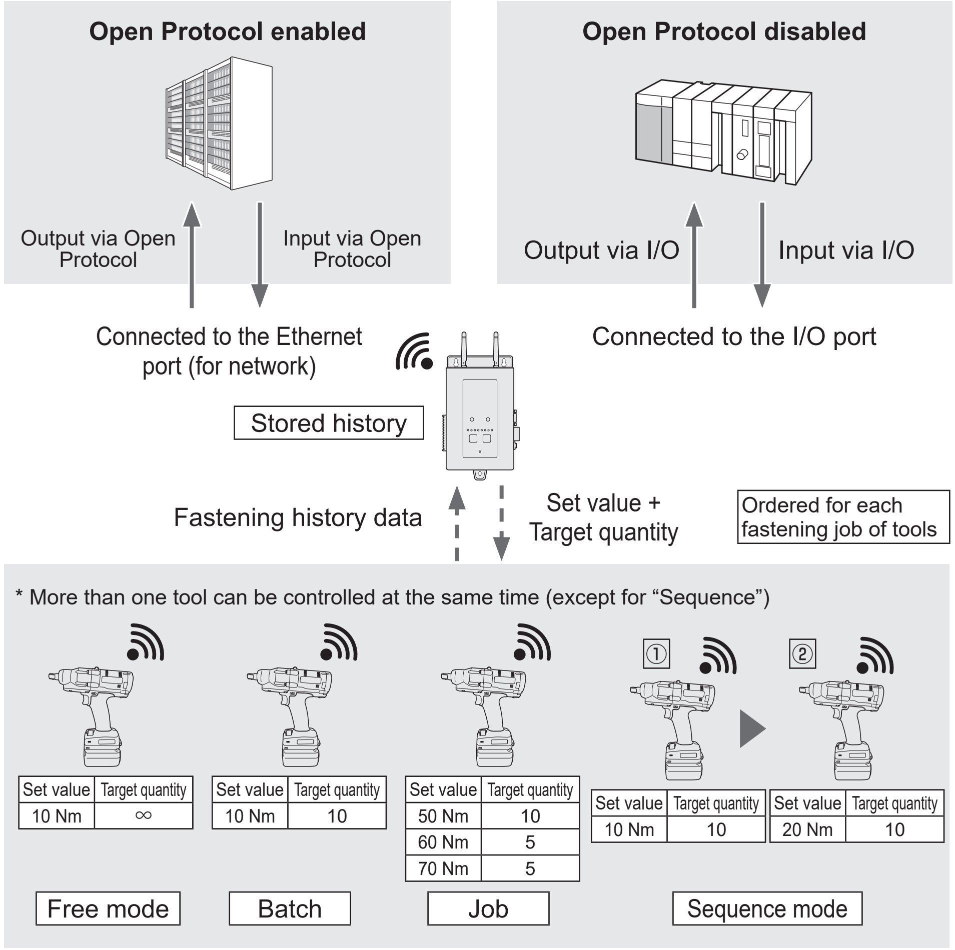
⑧

Set value	Target quantity
80 Nm	10
90 Nm	5
10 Nm	5

■ External control mode

This mode allows for fastening control as ordered by an external device (host system).
The following 2 types of control are supported.

- **Control via Open Protocol (with Open Protocol enabled)**
  Fastening is controlled via Open Protocol by a host system.
  Up to 8 tools can be controlled independently.
  * Job and sequence controls are not supported.
- **Control via I/O (with Open Protocol disabled)**
  Fastening is controlled by inputs via the I/O port from an external device.
  Up to 8 tools can be controlled independently or sequentially.


Open Protocol enabled
Open Protocol disabled
Output via Open Protocol
Input via Open Protocol
Output via I/O
Input via I/O
Connected to the Ethernet port (for network)
Connected to the I/O port
Stored history
Fastening history data
Set value + Target quantity
Ordered for each fastening job of tools
* More than one tool can be controlled at the same time (except for “Sequence”)
①
②
Free mode
Batch
Job
Sequence mode

Free mode

Set value	Target quantity
10 Nm	∞

Batch

Set value	Target quantity
10 Nm	10

Job

Set value	Target quantity
50 Nm	10
60 Nm	5
70 Nm	5

Sequence mode ①

Set value	Target quantity
10 Nm	10

Sequence mode ②

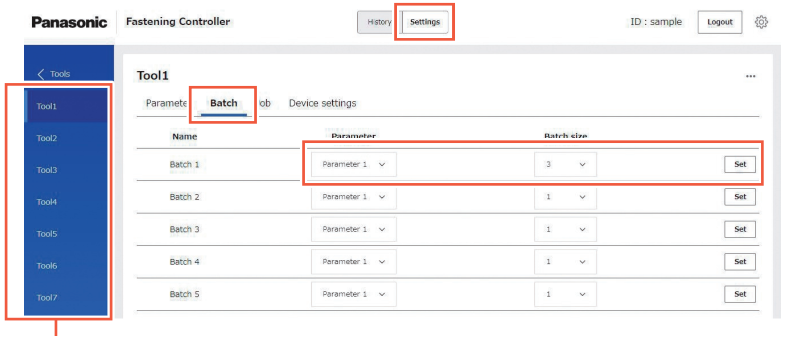
Set value	Target quantity
20 Nm	10

* If the controller turns off during fastening, fastening does not resume after the controller turns on. Fastening starts again when ordered by an external device.
* The I/O output settings are enabled.

SETTING THE FASTENING CONTROL MODE (cont.)

Creating (Setting) a Batch

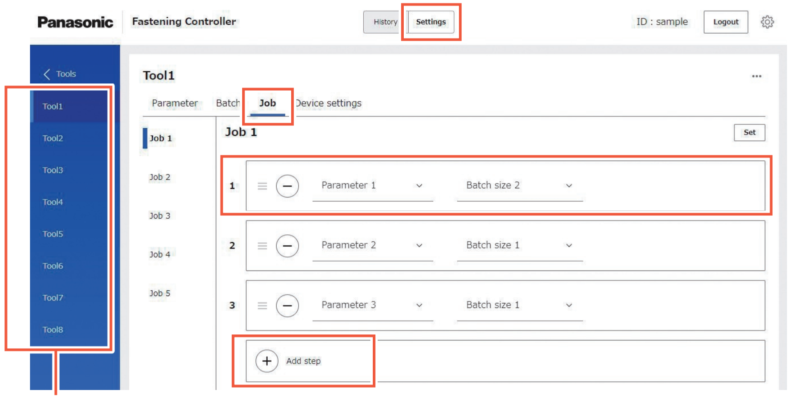
In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab. In the “Connected tool” screen, click the desired tool number.
In the screen for the tool number, select the “Batch” tab and make settings.
Select a parameter from the “Parameter” pull-down menu and set “Batch size” (quantity to fasten, up to 99). Click [Set] to set the values for “Repeat mode (Basic mode)”.
* To switch the tool, select the desired one from the tool list.
* Up to 5 batches can be registered.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
Paramete
Batch
ob
Device settings
Name
Parameter
Batch size
Batch 1
Parameter 1
3
Set
Batch 2
Parameter 1
1
Set
Batch 3
Parameter 1
1
Set
Batch 4
Parameter 1
1
Set
Batch 5
Parameter 1
1
Set

Tool list

Creating (Setting) a Job

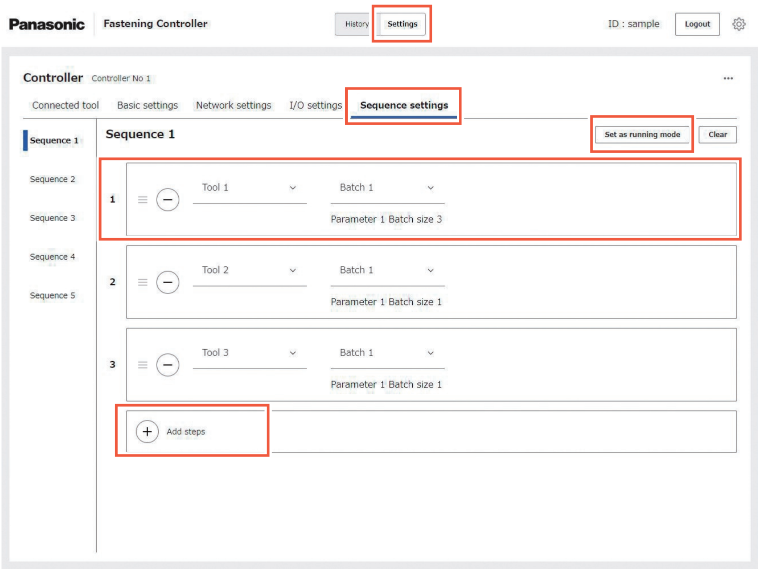
In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab. In the “Connected tool” screen, click the desired tool number.
In the screen for the tool number, select the “Job” tab and make settings.
Select a parameter from the “Parameter” pull-down menu and set “Batch size” (quantity to fasten, up to 99). Click [Set] to set the values for “Repeat mode (Basic mode)”.
* Up to 10 steps can be registered.
* To switch the tool, select the desired one from the tool list.
* Up to 5 jobs can be registered.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Job 1
Job 2
Job 3
Job 4
Job 5
Job 1
Set
1
Parameter 1
Batch size 2
2
Parameter 2
Batch size 1
3
Parameter 3
Batch size 1
Add step

Tool list

Creating (Setting) a Sequence

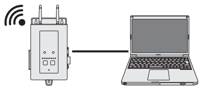
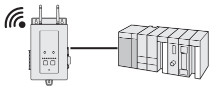
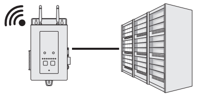
In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Sequence settings” tab.
In the “Sequence settings” screen, select a tool from the “Tool” pull-down menu and set “Batch” or “Job”.
Click [Set as running mode] to set the values for “Repeat mode (Sequence mode)”.
* Up to 5 sequences can be registered.
* Up to 10 steps can be registered.
* The same tool can be used more than once in a sequence.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Sequence 1
Sequence 2
Sequence 3
Sequence 4
Sequence 5
Sequence 1
Set as running mode
Clear
1
Tool 1
Batch 1
Parameter 1 Batch size 3
2
Tool 2
Batch 1
Parameter 1 Batch size 1
3
Tool 3
Batch 1
Parameter 1 Batch size 1
Add steps

CONNECTING TO EXTERNAL DEVICE

Supported Types of External Devices

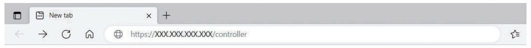
The controller supports the following types of external device.

Feature	PC for Configuration	PLC	Customer’s Host System
Illustration			
Communication method	Ethernet	I/O	Ethernet
Communication protocol	http/https	— (ON/OFF signal only)	Open Protocol
Main use	• Viewing and storing the fastening history • Changing the settings	• Outputting completion and failure signals • Switching the fastening order	• Exporting the fastening history • Switching the fastening order
Data that can be exported	• Serial numbers of tools • Time • Completion and failure results • Torque values, angles, fastening time lengths • Waveform data	• Completion and failure results • Batch/job/sequence complete • Batch/job/sequence selected • Tool active	• Serial numbers of tools • Time • Completion and failure results • Torque values, angles, fastening time lengths • Waveform data
Switching the fastening order	—	• Batch/job/sequence selected	• Parameter/batch selected
Other	Displayed in a web browser. Microsoft Edge is recommended.	8 ports each for input and output	For supported commands, see “Commands compatible with Open Protocol”. **Refer to P61** Control sequences should be reviewed respectively.

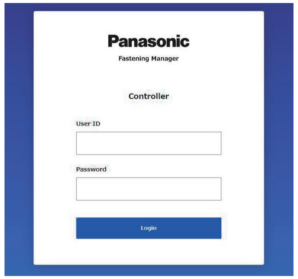
Connecting to the PC for Configuration in a Remote Location

The PC for configuration with the certificate installed can remotely connect to controllers.
Note that only one access to the configuration function is accepted at a time.
To connect, input the IP address of the desired controller in a web browser.

Refer to P21


New tab
https://XXX.XXX.XXX.XXX/controller

▶


Panasonic
Fastening Manager
Controller
User ID
Password
Login

CONNECTING TO EXTERNAL DEVICE VIA I/O

Connecting via I/O

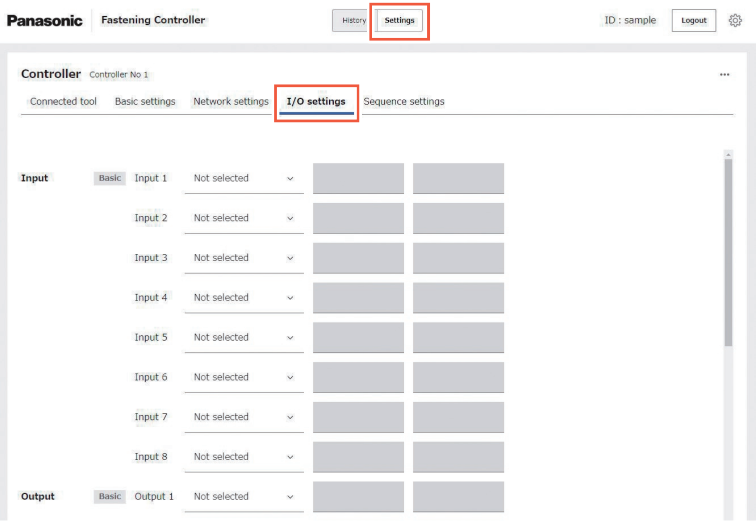
You can assign supported commands to 8 input ports and 8 output ports as desired. Assign them in the “I/O settings” screen.
Below are the commands that can be assigned to the ports.

Input	Supported command
1	Batch (Tool 1 to 5) Job (Tool 1 to 5) Sequence (1 to 5) Batch reset (1 to 8) Reset Suspend tool (1 to 8) Suspend controller
2	
3	
4	
5	
6	
7	
8	

Output	Supported command
1	OK (Tool 1 to 8) NOK (Tool 1 to 8) Batch complete (Tool 1 to 5) Job complete (Tool 1 to 5) Sequence complete (1 to 5) Tool active (Tool 1 to 8) Batch selected (Tool 1 to 5) Job selected (Tool 1 to 5) Sequence selected (1 to 5)
2	
3	
4	
5	
6	
7	
8	

Setting I/O

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “I/O settings” tab.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Input 1
Input 2
Input 3
Input 4
Input 5
Input 6
Input 7
Input 8
Output
Output 1
Not selected

* It is possible to assign a behaviour or event not registered yet. (Except for job selection and sequence selection)

Commands Assigned to Input Ports

Below are the commands that can be assigned to the input ports.
When a signal from an external device is input to one of the ports, the assigned command is executed.

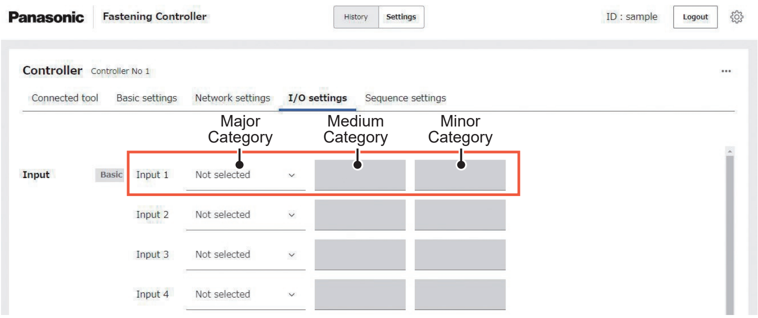
Major Category (Behaviour)	Medium Category (Tool)	Minor Category (Batch No., Etc.)
Batch	Tool 1 to 8	1-5
Job	Tool 1 to 8	1-5
Sequence	—	1-5
Suspend tool[*1]	Tool 1 to 8	—
Suspend controller[*1]	—	—
Batch reset	Tool 1 to 8	—
Reset	—	—

*1 Enabled only while the input signal is held.

Notes when the "Suspend tool" or "Suspend controller" command is input

- While "Suspend controller" is active, no fastening order is accepted.
- For the tool number with "Suspend tool" active, no "Batch" or "Job" fastening order is accepted.
- For other tool numbers than that with "Suspend tool" active, a "Batch" or "Job" fastening order is accepted.
- While "Suspend tool" is active, no "Sequence" fastening order is accepted.
  At the time, the process continues until it reaches the tool with "Suspend tool" active.
- "Batch reset" and "Reset" are treated in the same manner as a fastening order.

After selecting a behaviour in the major category, select a tool and then a number (e.g., batch number) as necessary.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Major Category
Medium Category
Minor Category
Input
Basic

Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected

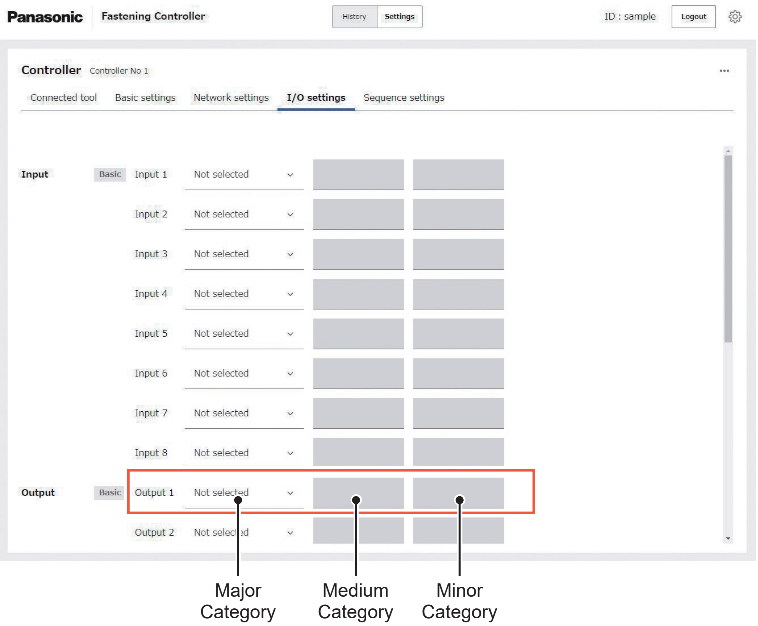
* No action is conducted if an unassigned signal is input. (No error occurs)

Commands Assigned to Output Ports

Below are the commands that can be assigned to the output ports.
When a relevant event has occurred, the controller outputs a signal from the corresponding port to an external device as specified by the assigned command.

Major Category (Event)	Medium Category (Tool)	Minor Category (Batch No., Etc.)
OK	Tool 1 to 8	—
NOK	Tool 1 to 8	—
Batch complete	Tool 1 to 8	1-5
Job complete	Tool 1 to 8	1-5
Sequence complete	—	1-5
Tool active	Tool 1 to 8	—
Batch selected	Tool 1 to 8	1-5
Job selected	Tool 1 to 8	1-5
Sequence selected	—	1-5

After selecting an event in the major category, select a tool and then a number (e.g., batch number) as necessary.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Output
Basic
Major Category
Medium Category
Minor Category

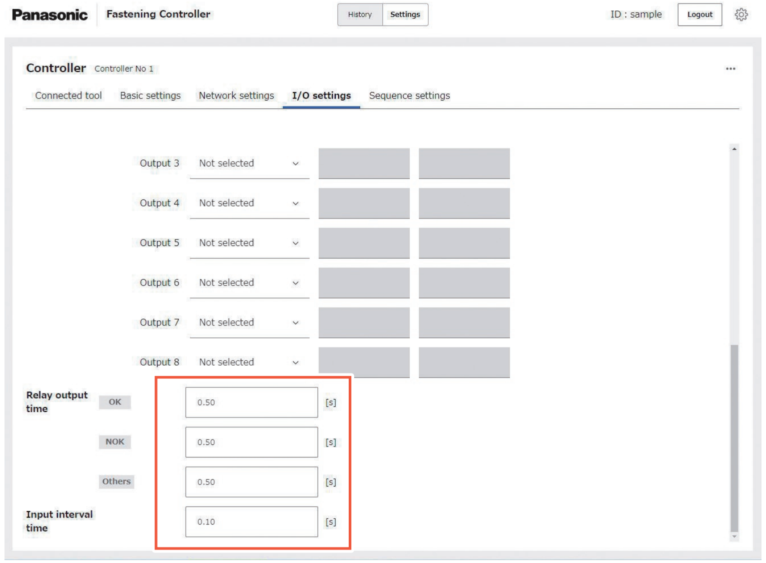
Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected
Input 5 Not selected
Input 6 Not selected
Input 7 Not selected
Input 8 Not selected
Output 1 Not selected
Output 2 Not selected

* If the controller turns off while executing an output command, the process does not resume after the controller turns on. (Note that fastening history data are saved.)

CONNECTING TO EXTERNAL DEVICE VIA I/O (cont.)

Other Settings

You can set other I/O related settings as below.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Output 3 Not selected
Output 4 Not selected
Output 5 Not selected
Output 6 Not selected
Output 7 Not selected
Output 8 Not selected
Relay output time OK 0.50 [s]
NOK 0.50 [s]
Others 0.50 [s]
Input interval time 0.10 [s]

Relay output time (OK)

Select the time length until a fastening completion signal is output by the relay.
[Default] 0.5 s
[Setting range] 0.01 s to 10 s

Relay output time (NOK)

Select the time length until a fastening failure signal is output by the relay.
[Default] 0.5 s
[Setting range] 0.01 s to 10 s

Relay output time (Others)

Select the time length until any other signal than fastening completion and failure signals is output by the relay.
[Default] 0.5 s
[Setting range] 0.01 s to 10 s

Input interval time

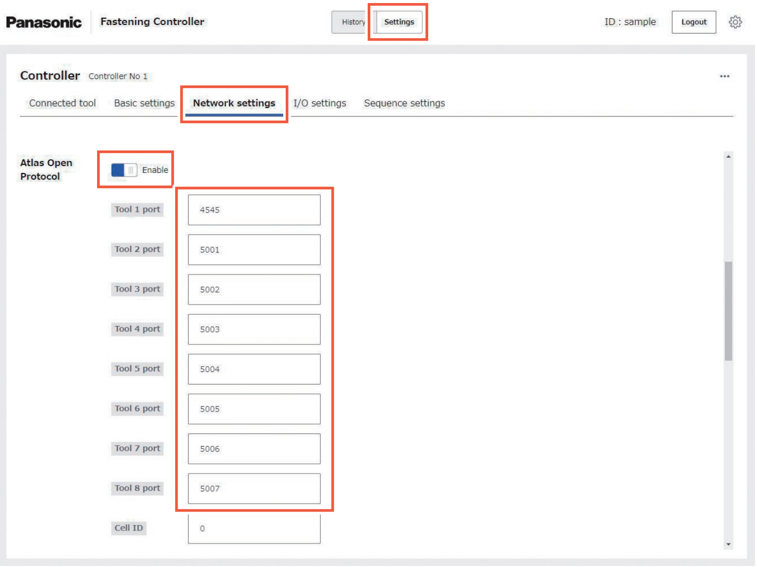
Select the time length when the successive input signals are not counted (accepted). Set it to prevent double-counting caused by noise, etc.
[Default] 0.1 s
[Setting range] 0.01 s to 10 s

CONNECTING TO EXTERNAL DEVICE VIA OPEN PROTOCOL

Connecting via Open Protocol Communication

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Network settings” tab.

Enable “Atlas Open Protocol”.
Set port numbers to the tools used respectively.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

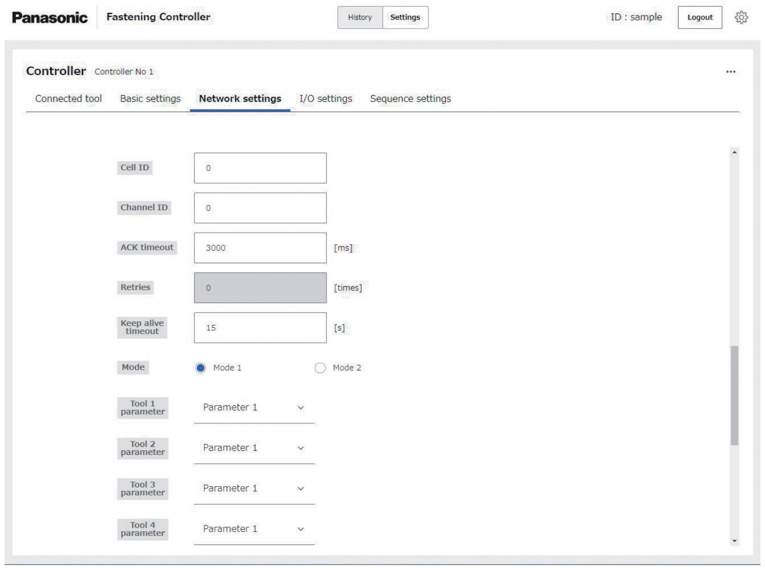
Atlas Open Protocol Enable
Tool 1 port 4545
Tool 2 port 5001
Tool 3 port 5002
Tool 4 port 5003
Tool 5 port 5004
Tool 6 port 5005
Tool 7 port 5006
Tool 8 port 5007
Cell ID 0

Tool port

Assign a port number for Open Protocol communication to each tool.
[Default] Tool 1 - 4545,
Tool 2 to 8 - 5001 to 5007
[Setting range] Tool 1 to 8 - 1024 to 49151

Other Settings

Set other items as necessary.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID 0
Channel ID 0
ACK timeout 3000 [ms]
Retries 0 [times]
Keep alive timeout 15 [s]
Mode ● Mode 1 ○ Mode 2
Tool 1 parameter Parameter 1
Tool 2 parameter Parameter 1
Tool 3 parameter Parameter 1
Tool 4 parameter Parameter 1

Cell ID

Set the cell ID.
[Default] 0
[Setting range] 0 to 9999

Channel ID

Set the channel ID.
[Default] 0
[Setting range] 0 to 99

ACK timeout

Set the time length to wait for a response to a request message from the controller.
[Default] 3000 ms
[Setting range] 100 ms to 30000 ms

Retries

Set the number of times to repeat sending a request message from the controller.
[Default] 0 times
[Setting range] Not selectable (Fixed)

Keep alive timeout

Set the time length to determine occurrence of disconnection after the last communication with a host system.
[Default] 15 s
[Setting range] 1 s to 60 s

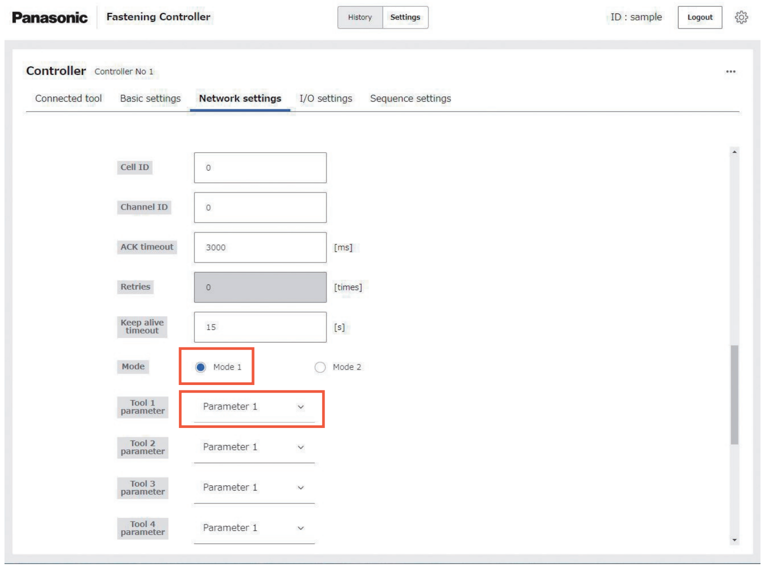
Mode

Set the running mode.
Mode 1: Unconditional fastening with pre-registered parameters
Mode 2: Fastening with parameters ordered by a host system
[Default] Mode 1
[Setting range] Mode 1 / Mode 2

Assigning Fastening Parameters (Mode 1)

“Mode 1” (without parameters ordered) requires fastening parameters pre-registered to tools.

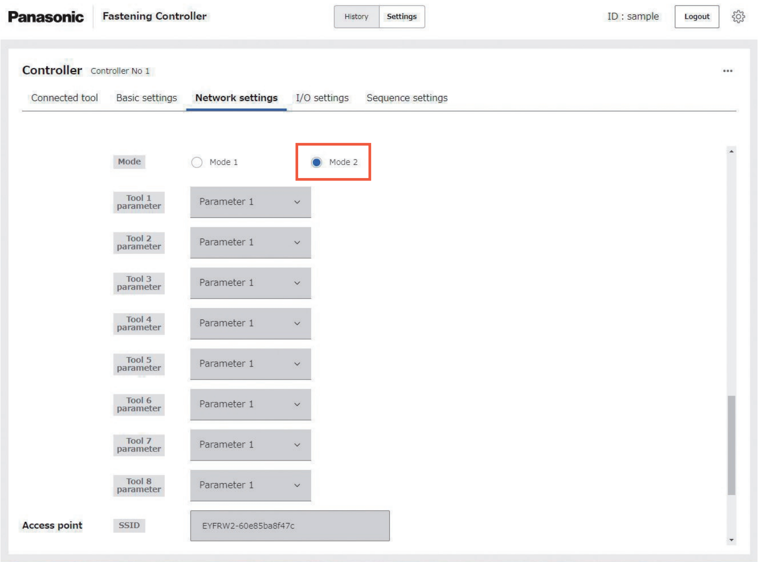
Select a parameter from the pull-down menu as below.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID 0
Channel ID 0
ACK timeout 3000 [ms]
Retries 0 [times]
Keep alive timeout 15 [s]
Mode ● Mode 1 ○ Mode 2
Tool 1 parameter Parameter 1
Tool 2 parameter Parameter 1
Tool 3 parameter Parameter 1
Tool 4 parameter Parameter 1

Assigning Fastening Parameters (Mode 2)

Fastening can be ordered with a MID 0018 command by an external device.
You can specify “Parameter” or “Batch” in a fastening order.



Mode: ○ Mode 1 ● Mode 2

Tool 1 parameter	Parameter 1
Tool 2 parameter	Parameter 1
Tool 3 parameter	Parameter 1
Tool 4 parameter	Parameter 1
Tool 5 parameter	Parameter 1
Tool 6 parameter	Parameter 1
Tool 7 parameter	Parameter 1
Tool 8 parameter	Parameter 1

Access point SSID: EYFRW2-60e85ba8f47c

■ To specify “Parameter” in a fastening order

Put “0” in the hundreds digit of ID.
The tens and ones digits show a parameter number.

Example: Parameter 1’s ID: 001
Parameter 5’s ID: 005

■ To specify “Batch” in a fastening order

Put “1” in the hundreds digit of ID.
The tens and ones digits show a batch number.

Example: Batch 1’s ID: 101
Batch 5’s ID: 105

* “Job” and “Sequence” are not supported.

■ Commands compatible with Open Protocol

The controller supports the following commands.
For details of commands, see the Open Protocol Specification.

MID 0001 Application communication start
Revision 1 is supported. [Content] Communication start

MID 0002 Application communication start acknowledge
Revision 1 is supported. [Content] Communication acknowledgement

MID 0004 Application command error
Revision 1 is supported. [Content] Command error

MID 0005 Application command accepted
Revision 1 is supported. [Content] Command acceptance

MID 0018 Select parameter set, Dynamic Job included
Revision 1 is supported. For how to assign, see “Assigning Fastening Parameters (Mode 2)”. **Refer to P60** [Content] Parameter set order

MID 0042 Disable tool
Revision 1 is supported. [Content] Tool disabled

MID 0043 Enable tool
Revision 1 is supported. [Content] Tool enabled

MID 0050 Vehicle ID number download request
Revision 1 is supported. [Content] Vehicle ID acquisition request

MID 0060 Last tightening result data subscribe
Revision 1 and 2 are supported. [Content] Final fastening result data registration

MID 0061 Last tightening result data
Revision 1 and 2 are supported. [Content] Fastening result upload

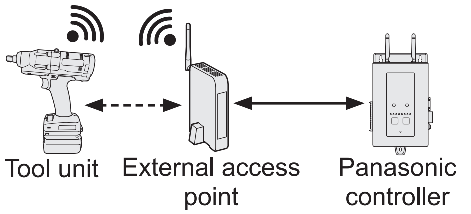
MID 0062 Last tightening result data acknowledge
Revision 1 and 2 are supported. [Content] Fastening result upload acknowledgement

MID 9999 Keep alive message
Revision 1 is supported. [Content] Availability check

CONNECTING VIA AN EXTERNAL ACCESS POINT

Setup

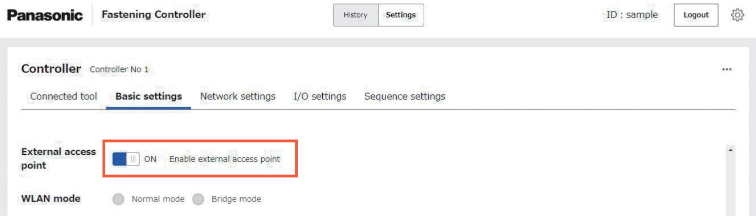
The controller can connect to tools via wireless communication using an external access point instead of the built-in access point.
The controller can control tools wherever it is installed.
Connect the access point and the controller to wired LAN.
* The wireless coverage and performance change depending on the access point used.

Connection	Communication Method	Note
 Tool unit External access point Panasonic controller	Ethernet	• In the mode selection, select the internal access point or external access point. • Maximum number of connected tools: 8 * For both the internal access point or external access point

Setting Procedure

1 **In the top page (the initial page of the setting screen), click [Settings] on the top, select the "Basic settings" tab, and set "External access point" to "ON".**

* "WLAN mode" is disabled when "External access point" is enabled.

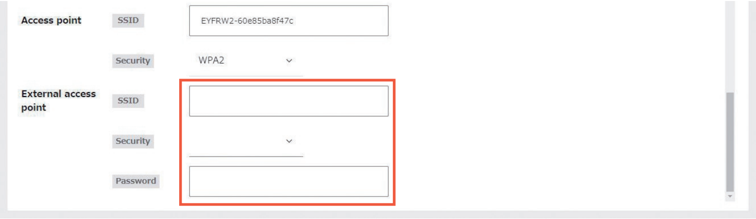

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

External access point: ON Enable external access point

WLAN mode: ○ Normal mode ○ Bridge mode

2 **In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Network settings" tab. In "External access point", set "SSID", "Security", and "Password".**

* You can register only one SSID in the controller. (You cannot register different SSIDs for different tools)
* See the Operating Instructions of your external access point.
* Make this setting before starting pairing registration with tools.
* Set the tool's IP address before starting pairing registration.



Access point
SSID: EYFRW2-60e85ba8f47c
Security: WPA2

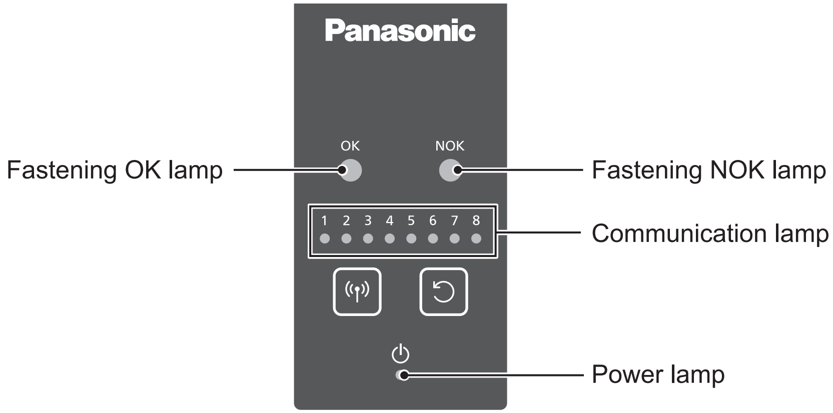
External access point
SSID:
Security:
Password:

INDICATOR LAMPS AND BUZZER

Indicator Lamps and a Buzzer

The indicator lamps and buzzer show the controller's status.

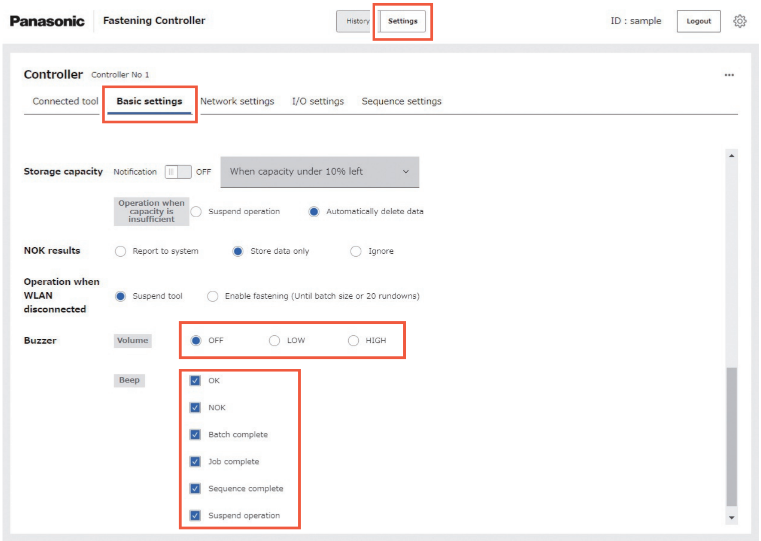
> ⚠ **CAUTION**
>
> Do not turn off the power switch while the lamp is blinking startup.
> Initialization may be required.


Panasonic
Fastening OK lamp
OK
NOK
Fastening NOK lamp
1 2 3 4 5 6 7 8
Communication lamp
Power lamp

Status	Indicator Lamp	Buzzer
Power on	Power lamp (yellow) Stays lit	–
A tool to pair selected	Communication lamp (blue) Blinks slowly	–
Pairing established	Communication lamp (blue) Blinks rapidly	–
Pairing completed	Communication lamp (blue) Stays lit	A short beep ■
Pairing not established	Communication lamp (blue) Blinks very slowly	–
Pairing disconnected	Communication lamp (blue) Off	–
Fastening completion	OK lamp (green) Stays lit	A short beep ■
Fastening failure	NOK lamp (red) Stays lit	A long beep ▬
Batch/job completion	OK lamp (green) Blinks twice	Two short beeps ■ ■
Sequence complete	OK lamp (green) Blinks three times	Three short beeps ■ ■ ■
Error	Power lamp (yellow) Blinks	Two long beeps ▬ ▬

Buzzer Setting

In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Basic settings" tab.
In "Buzzer", set "Volume" and "Beep".

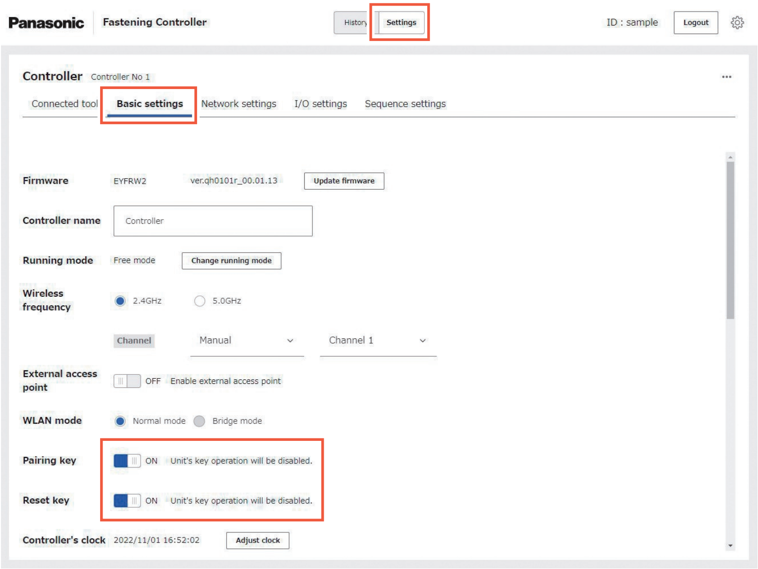

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Storage capacity: Notification OFF; When capacity under 10% left
Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data
NOK results: ○ Report to system ● Store data only ○ Ignore
Operation when WLAN disconnected: ● Suspend tool ○ Enable fastening (Until batch size or 20 rundowns)
Buzzer Volume: ● OFF ○ LOW ○ HIGH
Beep:
☑ OK
☑ NOK
☑ Batch complete
☑ Job complete
☑ Sequence complete
☑ Suspend operation

Item	Description
Volume	3 levels (OFF / LOW / HIGH) (LOW: 75 dB, HIGH: 85 dB)
Beep	Selected on the PC for configuration (OK / NOK / Batch complete / Job complete / Sequence complete / Suspend operation)

SETTING THE OPERATION KEYS

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Basic settings” tab.
In “Pairing key” and “Reset key”, you can disable the Pairing key and Reset key on the control panel.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name Controller

Running mode Free mode

Wireless frequency ● 2.4GHz ○ 5.0GHz

Channel Manual Channel 1

External access point OFF Enable external access point

WLAN mode ● Normal mode ○ Bridge mode

Pairing key ON Unit's key operation will be disabled.

Reset key ON Unit's key operation will be disabled.

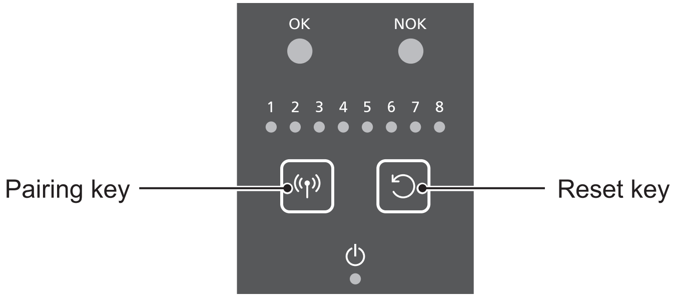
Controller's clock 2022/11/01 16:52:02

Pairing key

Enable or disable the Pairing key on the control panel.
[Default] ON
[Setting range] ON (enabled) / OFF (disabled)

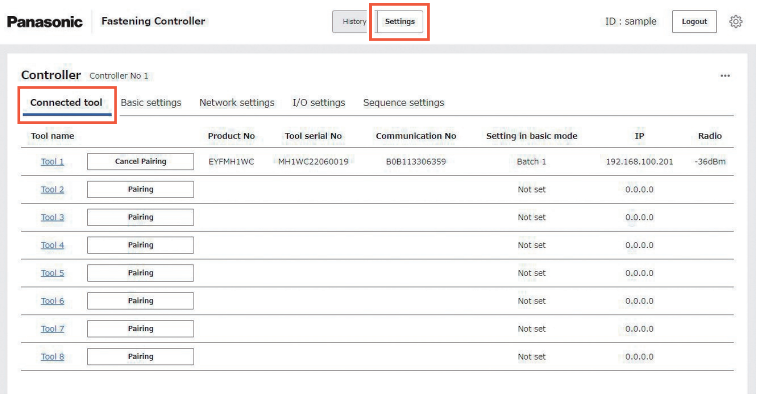
Reset key

Enable or disable the Reset key on the control panel.
[Default] ON
[Setting range] ON (enabled) / OFF (disabled)


OK
NOK
1
2
3
4
5
6
7
8
Pairing key
Reset key

CHECKING THE INFORMATION OF CONNECTED TOOLS

In the top page (the initial page of the setting screen), click [Settings] on the top and select the “Connected tool” tab.
You can see the information and status of the tools connected to the controller.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Below are the displayed items.

Tool name

The registered tool number (1 to 8) is displayed.

Tool serial No

You can set and display the tool’s unit identification.
Default: 5-digit model ID + 8-digit serial number (2-digit manufacturing year + 2-digit month + 4-digit production lot)

Product No

The tool product number is displayed.

Communication No

Unit identification (MAC address) of the tool’s communication part is displayed.

Setting in basic mode

A behaviour when the Running mode is set to “Repeat mode (Basic mode)” is displayed.

IP

The IP address of the tool is displayed.

Radio

Strength of a radio signal (RSSI) received from the tool is displayed.
* Strength at the last communication is displayed.
* It cannot be measured and “0dBm” appears when an external access point is used.

WORK MONITOR

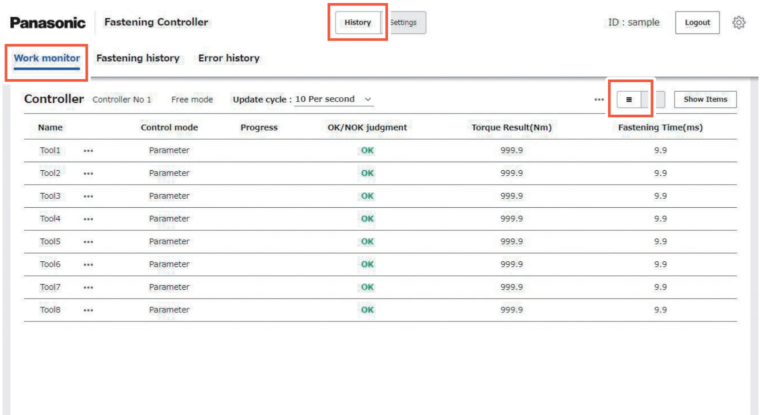
In the top page (the initial page of the setting screen), click [History] on the top and select the "Work monitor" tab.
The latest fastening history logs by tool are displayed. You can use them to work by referring to the work results.

* More than one PCs for configuration can display them at the same time. (Up to 8 accesses. Multiple accesses from the same account are accepted.)
* To log in with more than one account, using different PCs is recommended.
* To use more than one account on the same PC, using different web browsers is recommended.
* Only one access to the configuration function is accepted at a time.

Switching the View Format

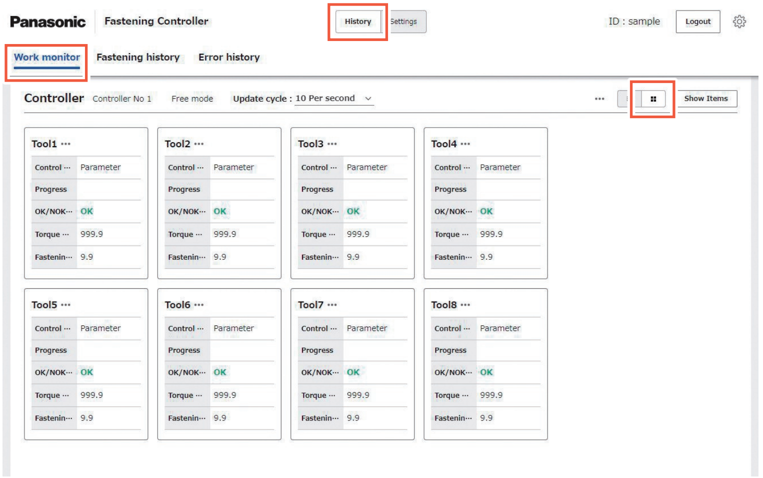
You can select between "List view" and "Grid view".
Use the view icon on the upper right of the screen.

■ List view


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	999.9	9.9
Tool2	•••	Parameter		OK	999.9	9.9
Tool3	•••	Parameter		OK	999.9	9.9
Tool4	•••	Parameter		OK	999.9	9.9
Tool5	•••	Parameter		OK	999.9	9.9
Tool6	•••	Parameter		OK	999.9	9.9
Tool7	•••	Parameter		OK	999.9	9.9
Tool8	•••	Parameter		OK	999.9	9.9

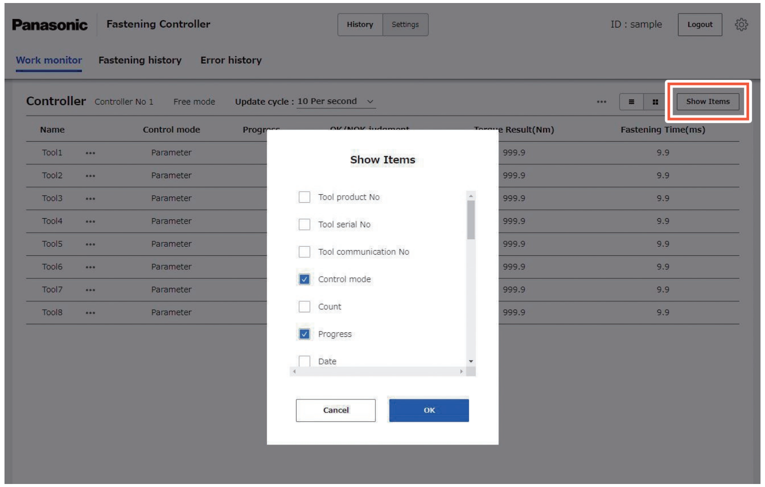
■ Grid view


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

	Control ···	Progress	OK/NOK···	Torque ···	Fastenin···
Tool1 ···	Parameter		OK	999.9	9.9
Tool2 ···	Parameter		OK	999.9	9.9
Tool3 ···	Parameter		OK	999.9	9.9
Tool4 ···	Parameter		OK	999.9	9.9
Tool5 ···	Parameter		OK	999.9	9.9
Tool6 ···	Parameter		OK	999.9	9.9
Tool7 ···	Parameter		OK	999.9	9.9
Tool8 ···	Parameter		OK	999.9	9.9

Selecting Items to Show

Select items to show using "Show Items".


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Cancel
OK

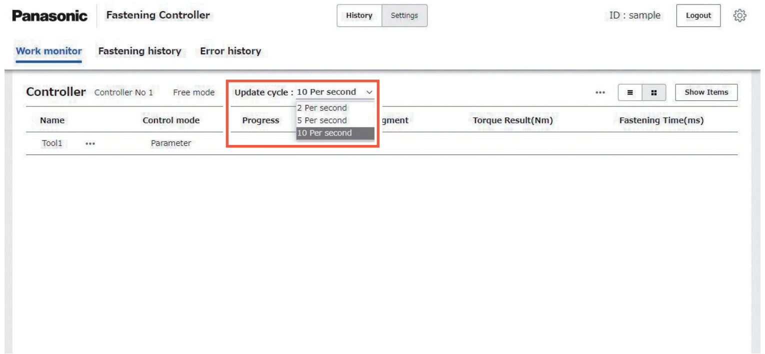
Show Items

- ☐ Tool product No
- ☐ Tool serial No
- ☐ Tool communication No
- ☑ Control mode
- ☐ Count
- ☑ Progress
- ☐ Date

* In "List view", you can scroll down and select many items to show.
* In "Grid view", you can show up to 5 items.

Selecting the Display Update Cycle

You can set automatic display update.
Select the update cycle from "2 Per second", "5 Per second", and "10 Per second" as below.

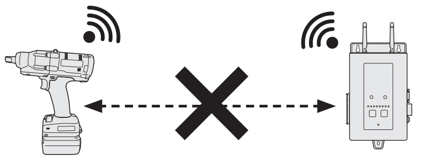

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Show Items
Name
Control mode
Progress
gment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
2 Per second
5 Per second
10 Per second

Update cycle : 10 Per second

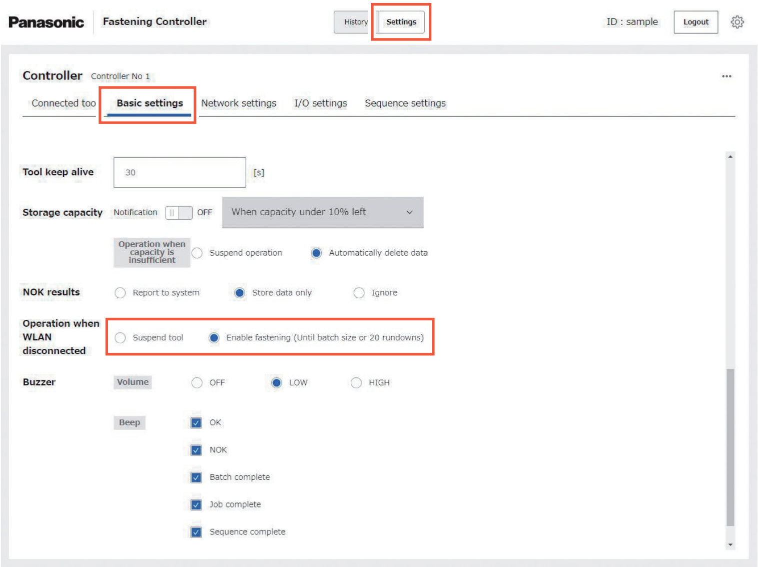
* If a large number of tools or PCs for configuration are connected, the update cycle of "10 Per second" is recommended. (It may take some time to process data.)

TOOLS' BEHAVIOUR WITH WIRELESS COMMUNICATION DISCONNECTED

You can continue the fastening with the same parameters in case of temporary disruption of wireless communication between a tool and the controller.



In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Basic settings" tab.
If you set "Operation when WLAN disconnected" to "Suspend tool", the ongoing fastening is completed after disruption but no further fastening is conducted.
If you set "Enable fastening", no further fastening is conducted after the fastened quantity has reached the upper limit.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected too
Basic settings
Network settings
I/O settings
Sequence settings

Tool keep alive 30 [s]

Storage capacity Notification OFF When capacity under 10% left

Operation when capacity is insufficient ○ Suspend operation ● Automatically delete data

NOK results ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected ○ Suspend tool ● Enable fastening (Until batch size or 20 rundowns)

Buzzer Volume ○ OFF ● LOW ○ HIGH

Beep
☑ OK
☑ NOK
☑ Batch complete
☑ Job complete
☑ Sequence complete

With "Enable fastening", the upper limit quantities by mode are as below.

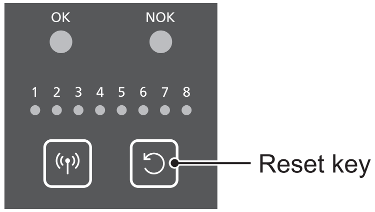
Mode		Behaviour
Free mode		Continues fastening up to 20 screws
Repeat mode	Basic mode	Continues fastening up to the end of the batch or up to 20 screws
	Sequence mode	Continues fastening up to the end of the batch or up to 20 screws * Tools other than the one concerned continue to run normally.
External control mode		Continues fastening up to the end of the batch or up to 20 screws

RESETTING THE COUNT DURING OPERATION

To change settings, stop fastening control by the controller if it is ongoing. A confirmation dialogue appears when you apply the change.
You can reset the counted quantities by "Using the key on the unit" or "Setting in the setting screen".
* This does not apply to "Free mode".

Using the key on the unit

Hold down the Reset key on the controller 3 seconds or more.
* The quantities of all active tools are reset.

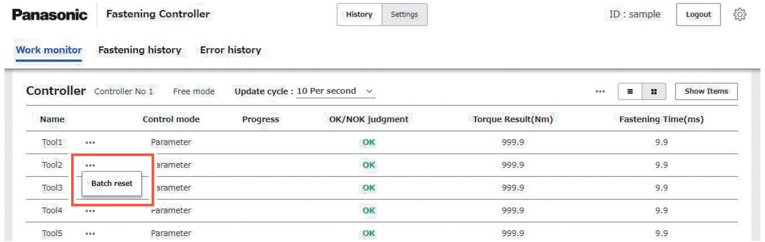

OK
NOK
1 2 3 4 5 6 7 8
Reset key

Setting in the setting screen

In the top page (the initial page of the setting screen), click [History] on the top and select the "Work monitor" tab.

■To reset the quantities by tool

In the "Work monitor" screen, click ··· (tool option key) and then [Batch reset] of the desired tool number.

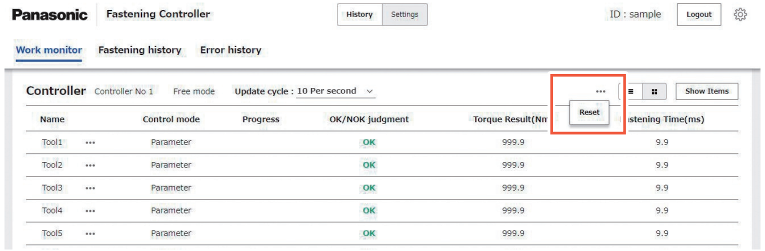

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Batch reset

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	arameter		OK	999.9	9.9
Tool3		arameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

■To reset the quantities of all tools collectively

In the "Work monitor" screen, click ··· (controller option key) and then [Reset] on the upper right.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Reset

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm	stening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	Parameter		OK	999.9	9.9
Tool3	···	Parameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

* In the Sequence mode, the quantities are reset up to the first tool.

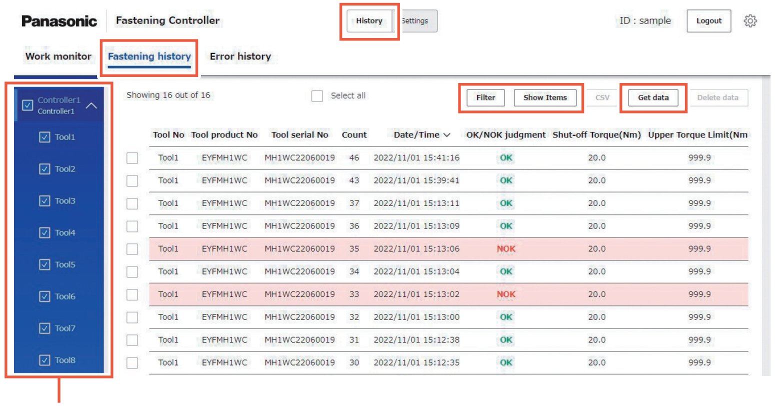
CHECKING THE FASTENING HISTORY DATA

Displaying the Fastening History Data

In the top page (the initial page of the setting screen), click [History] on the top and select the “Fastening history” tab.
You can view the fastening history data sent from tools to the controller.

To display the data, select the desired controller and tools from the tool list on the left and click [Get data] on the upper right.
The fastening history logs are displayed from newest to oldest.

* For the content of fastening history items, see the tool’s Operating Instructions.

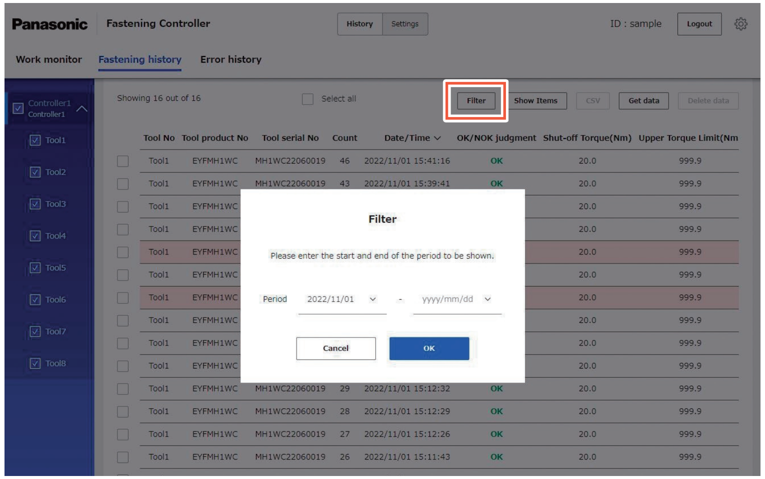

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
☑ Tool1
☑ Tool2
☑ Tool3
☑ Tool4
☑ Tool5
☑ Tool6
☑ Tool7
☑ Tool8
Showing 16 out of 16
☐ Select all
Filter
Show Items
CSV
Get data
Delete data

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Tool list

Extracting the fastening history logs by time period

Click [Filter] and specify the time period to narrow down the fastening history logs to display.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Filter
Show Items
CSV
Get data
Delete data
Cancel
OK

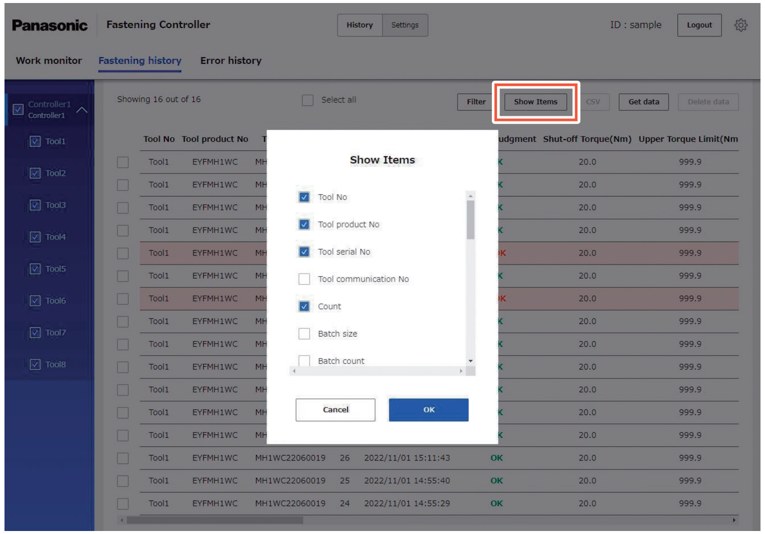
Filter

Please enter the start and end of the period to be shown.

Period 2022/11/01 - yyyy/mm/dd

Setting Items to Display

To change the displayed items, click [Show Items] and select the desired items.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Filter
Show Items
CSV
Get data
Delete data
Cancel
OK

Show Items

☑ Tool No
☑ Tool product No
☑ Tool serial No
☐ Tool communication No
☑ Count
☐ Batch size
☐ Batch count

Capacity for Fastening History Data

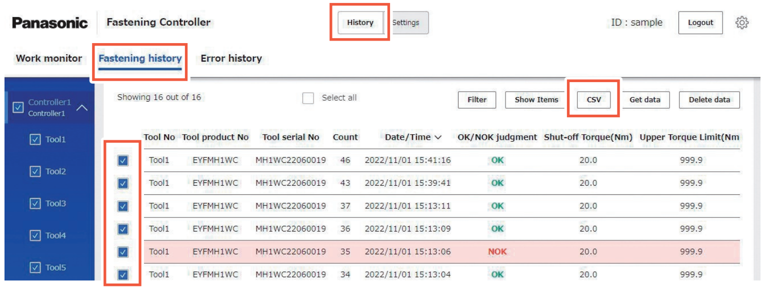
The controller can store a maximum of about 200,000 fastening history logs (including waveform data).
It suspends operation or automatically deletes the logs (by overwriting) if it receives more logs.
It is recommended that you periodically export the logs in the CSV format as necessary by referring to the guide below.

Estimated time to reach full storage capacity

	Quantity per Day per Tool		
Number of Tools	**1,000**	**3,000**	**5,000**
2	About 100 days	About 33 days	About 20 days
4	About 50 days	About 16 days	About 10 days
8	About 25 days	About 8 days	About 5 days

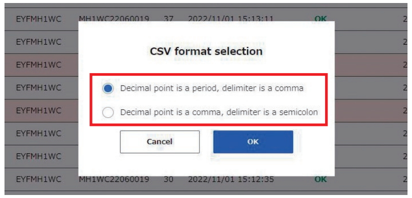
Exporting the Fastening History Data in the CSV Format

In the top page (the initial page of the setting screen), click [History] on the top and select the “Fastening history” tab.
Select the desired logs and click [CSV].
The fastening history logs are exported in the CSV format.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

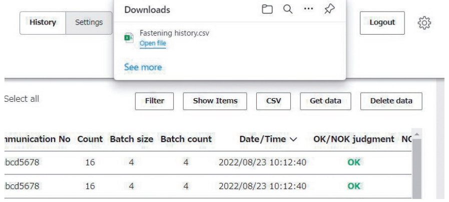
	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9

You can select between “Decimal point is a period, delimiter is a comma” and “Decimal point is a comma, delimiter is a semicolon”.



CSV format selection

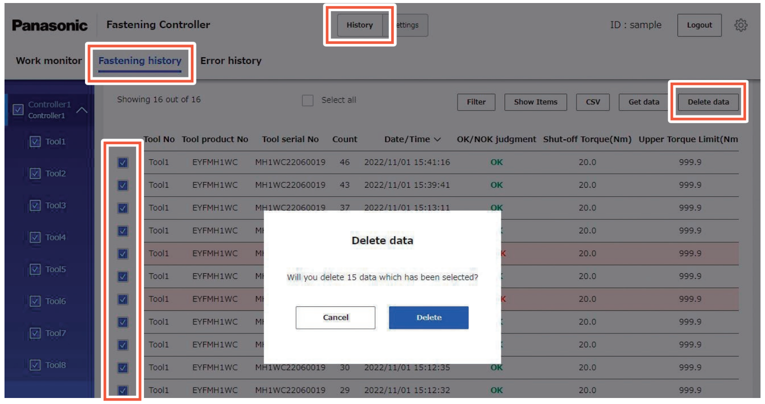
● Decimal point is a period, delimiter is a comma
○ Decimal point is a comma, delimiter is a semicolon


History
Settings
Downloads
Fastening history.csv
Open file
See more
Logout
Select all
Filter
Show Items
CSV
Get data
Delete data

mmunication No	Count	Batch size	Batch count	Date/Time	OK/NOK judgment	NC
bcd5678	16	4	4	2022/08/23 10:12:40	OK	
bcd5678	16	4	4	2022/08/23 10:12:40	OK	

Deleting the Fastening History Data

In the top page (the initial page of the setting screen), click [History] on the top and select the “Fastening history” tab.
Select the desired logs and click [Delete data].
The fastening history logs are deleted.


Panasonic
Fastening Controller
History
ettings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC	[illegible]	[illegible]	[illegible]	[illegible]	20.0	999.9
☑	Tool1	EYFMH1WC	[illegible]	[illegible]	[illegible]	[illegible]	20.0	999.9
☑	Tool1	EYFMH1WC	[illegible]	[illegible]	[illegible]	[illegible]	20.0	999.9
☑	Tool1	EYFMH1WC	[illegible]	[illegible]	[illegible]	[illegible]	20.0	999.9
☑	Tool1	EYFMH1WC	[illegible]	[illegible]	[illegible]	[illegible]	20.0	999.9
☑	Tool1	EYFMH1WC	[illegible]	[illegible]	[illegible]	[illegible]	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	29	2022/11/01 15:12:32	OK	20.0	999.9

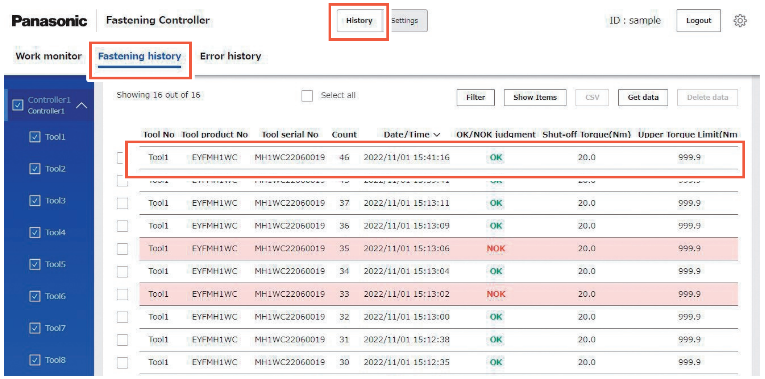
Delete data

Will you delete 15 data which has been selected?

Cancel
Delete

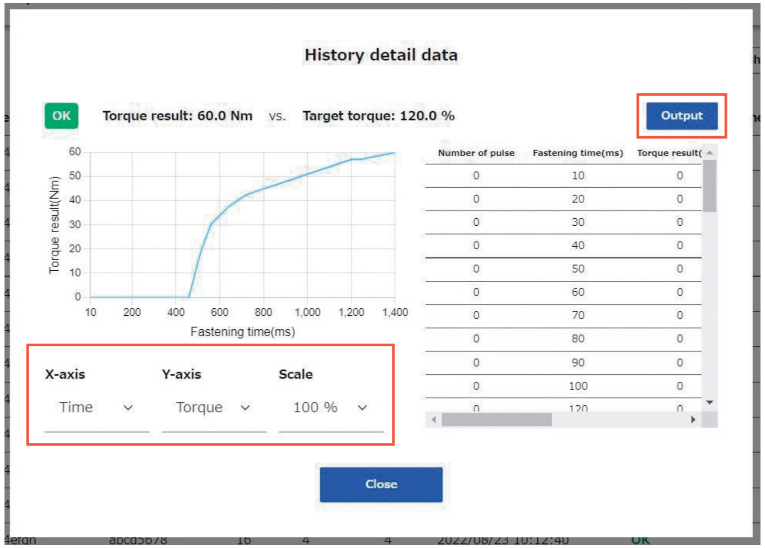
Displaying the Waveform Data

In the top page (the initial page of the setting screen), click [History] on the top and select the “Fastening history” tab.
If you have enabled to save waveform data, you can double-click on the row of the desired fastening history log to display a waveform data popup window.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

You can adjust the display by selecting “X-axis”, “Y-axis”, and “Scale”.
Clicking [Output] exports the data in the CSV format.


Output
Torque result(Nm)
60
50
40
30
20
10
0
10
200
400
600
800
1,000
1,200
1,400
Fastening time(ms)
Close

History detail data

OK Torque result: 60.0 Nm vs. Target torque: 120.0 %

X-axis	Y-axis	Scale
Time	Torque	100 %

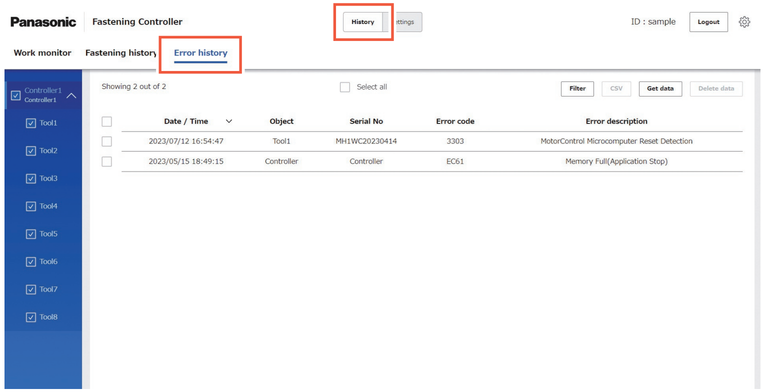
Number of pulse	Fastening time(ms)	Torque result(
0	10	0
0	20	0
0	30	0
0	40	0
0	50	0
0	60	0
0	70	0
0	80	0
0	90	0
0	100	0
0	120	0

* Please set “Graph sending timing” in “Device settings” to “After every fastening”.

CHECKING THE FASTENING HISTORY DATA (cont.)

Displaying the Error History

In the top page (the initial page of the setting screen), click [History] on the top and select the “Error history” tab.
The history of errors that occurred is displayed.


Panasonic
Fastening Controller
History
ttings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Filter
CSV
Get data
Delete data
Select all

Showing 2 out of 2

☐	Date / Time	Object	Serial No	Error code	Error description
☐	2023/07/12 16:54:47	Tool1	MH1WC20230414	3303	MotorControl Microcomputer Reset Detection
☐	2023/05/15 18:49:15	Controller	Controller	EC61	Memory Full(Application Stop)

Below are the displayed items.
* For the error content, see “ERROR CODE”. **Refer to P90**

Date / Time
The date and time of error occurrence are displayed.
Object
The device (the controller or any of Tool 1 to 8) causing an error is displayed.
Serial No
The serial number of the device (the controller or any of Tool 1 to 8) causing an error is displayed.
Error code
An error code that occurred is displayed.
Error description
Content of an error that occurred is displayed.

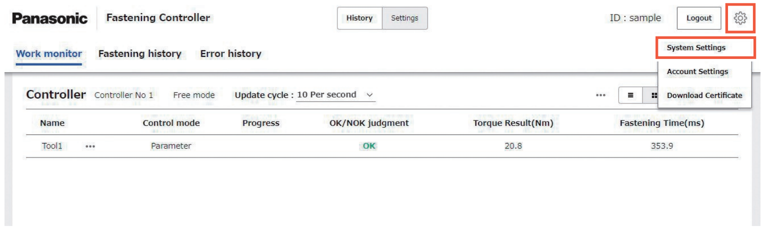
SYSTEM SETTINGS

Changing the Language

You can select “Japanese” or “English”.

1 In the top page (the initial page of the setting screen), click the option key on the upper right and select “System Settings”.

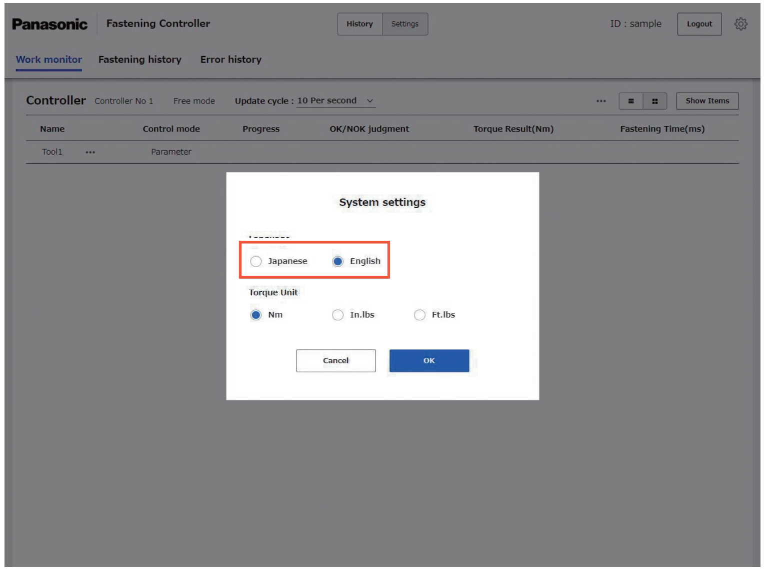
The “System settings” screen is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 Select the language in the “System settings” screen.

You can select “Japanese” or “English”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

○ Japanese ● English

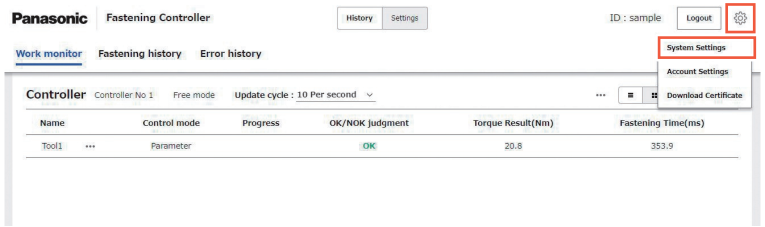
Torque Unit

● Nm ○ In.lbs ○ Ft.lbs

Changing the Torque Unit to Display

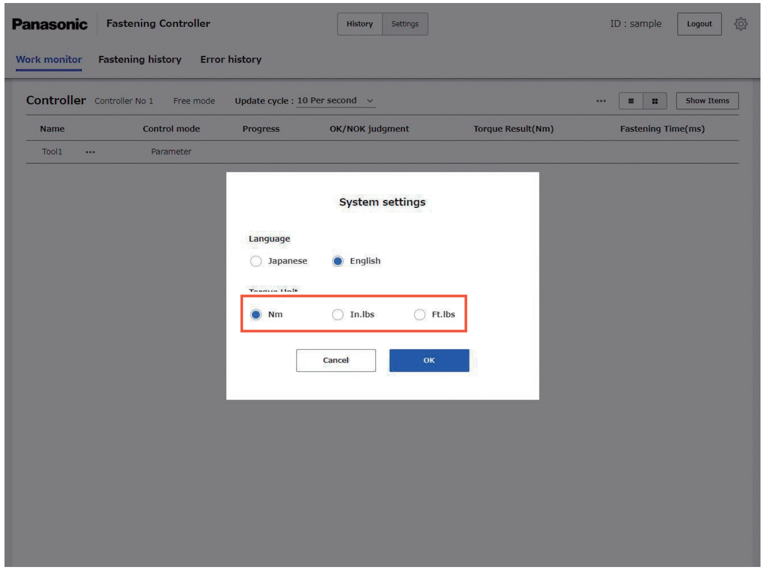
You can select “Nm”, “In.lbs”, or “Ft.lbs”.

1 **In the top page (the initial page of the setting screen), click the option key on the upper right and select “System Settings”.**
The “System settings” screen is displayed.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	20.8	353.9

2 **Select the torque unit in the “System settings” screen.**
You can select the torque unit from “Nm”, “In.lbs”, and “Ft.lbs”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

Language
○ Japanese ● English

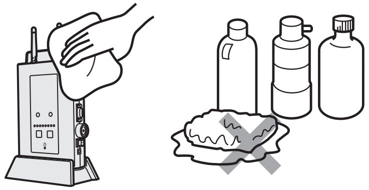
Torque Unit
● Nm ○ In.lbs ○ Ft.lbs

CLEANING AND STORAGE

How to Clean

Wiping with Soft Cloth

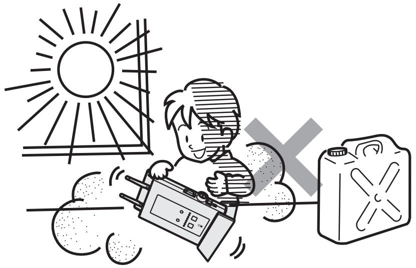
Do not use wet cloth, thinner, alcohol, benzine, or other volatile liquids.
(Cause of discoloration, deformation, or crack)



How to Store

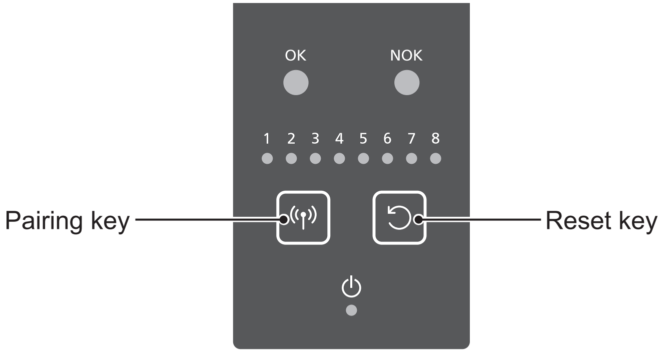
Avoid the following conditions during storage.

- Car cabin or other hot places
- Places exposed to direct sunlight
- Places exposed to water or dampness
- Places with a lot of foreign bodies or dust
- Places within reach of children
- Places with gasoline or other flammables
- Places with risk of fall



Initialising the Controller

To initialise (factory-reset) the controller, hold down the Pairing key and Reset key together 10 seconds or more.

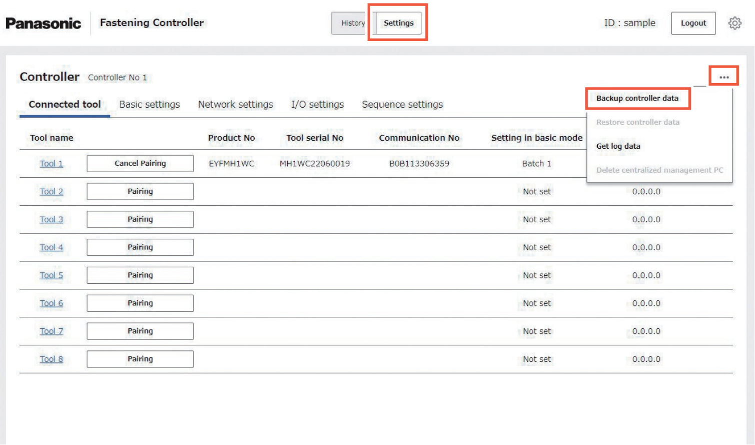

OK
NOK
1 2 3 4 5 6 7 8
Pairing key
Reset key

* It may take more than 5 minutes depending on the storage usage.
* You cannot conduct it when the keys on the unit are disabled. **Refer to P66**

CLEANING AND STORAGE (cont.)

Making a Backup of the Settings

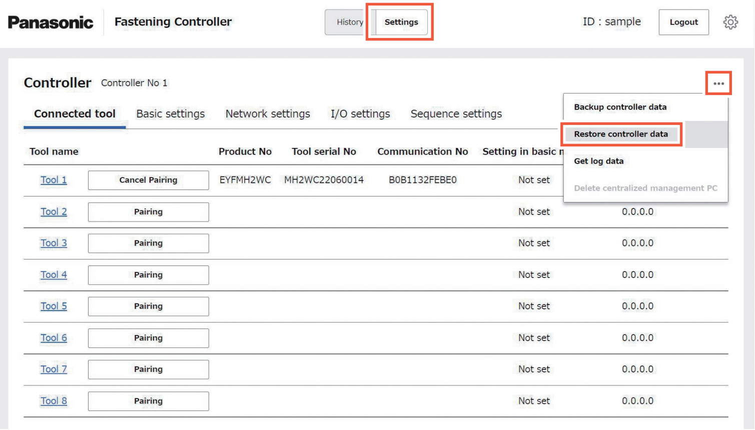
In the top page (the initial page of the setting screen), click [Settings] on the top.
Click ··· (controller option key) and then [Backup controller data].
You can back up the settings of the controller and tools.
* The fastening history data are not backed up. Export them in the CSV format as necessary.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Restoring the Settings

In the top page (the initial page of the setting screen), click [Settings] on the top.
Click ··· (controller option key) and then [Restore controller data].
You can restore the settings of the controller and tools from their backup.
* You cannot conduct it during fastening control.
* You cannot conduct it when pairing with tools is registered. Cancel the pairing.

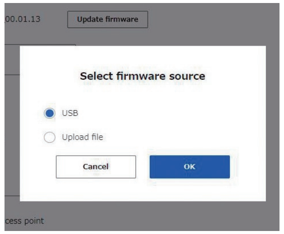

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic m	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Updating the Firmware

You can update the firmware of the controller and the tool's communication part.

Use either of the following to update the firmware.
① Using the USB port of the controller.
   * A USB flash drive with a password lock cannot be used.
   * Save only one firmware data file directly in a USB flash drive without creating a folder.
② Writing from the PC for configuration.
   * When selecting "Upload file", select the firmware data file saved on the PC in the selection screen.

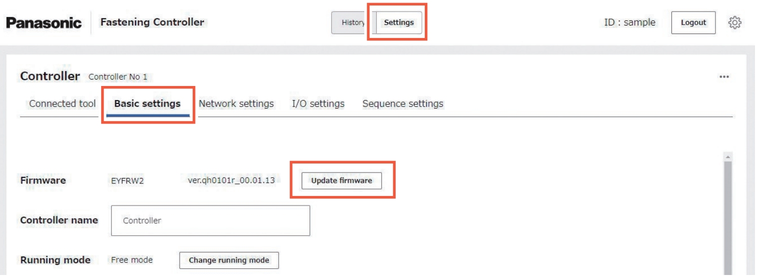

00.01.13
Update firmware
Select firmware source
Cancel
OK
cess point

● USB
○ Upload file

For the current firmware version, access our web site. **Refer to P2**
Or contact our sales person.

■ For the controller

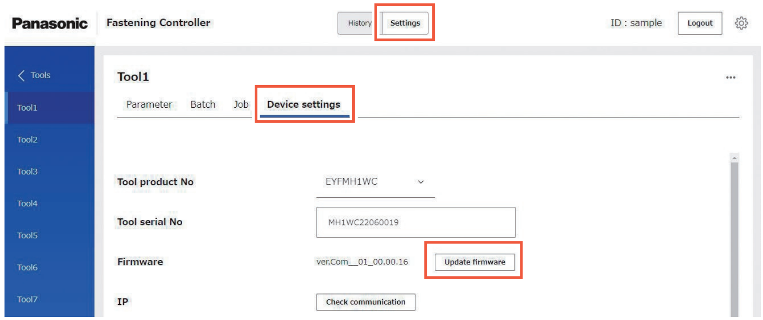
In the top page (the initial page of the setting screen), click [Settings] on the top, select the "Basic settings" tab, and click [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode

■ For the tool's communication part

In the top page (the initial page of the setting screen), click [Settings] on the top and select the "Connected tool" tab.
In the "Connected tool" screen, click the desired tool number.
From the "Device settings" tab in the screen for the tool number, click [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
···
Parameter
Batch
Job
Device settings
Update firmware
Check communication

Tool product No EYFMH1WC
Tool serial No MH1WC22060019
Firmware ver.Com__01_00.00.16
IP

CLEANING AND STORAGE (cont.)

Replacing the Coin Cell Battery

To keep the clock (RTC) of the controller running, replace the coin cell battery by referring to the replacement guide below.

■ Battery type

Panasonic
CR2450
3V

CR2450

■ Replacement guide

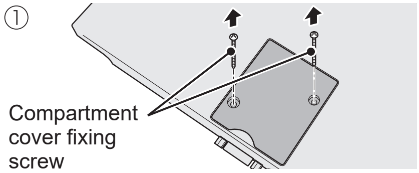
The coin cell battery is used to keep the clock running when the controller is off.
To minimise its consumption, in principle, do not turn the controlled off.

Power is on 12 hours per day (business days only)	Power is always on
About 3 years	About 8 years

Replace it with the following procedure or contact your dealer.
It is recommended that a person who has electrical knowledge should do the work.

1 **Remove the 2 compartment cover fixing screws and then remove the compartment cover.**

①



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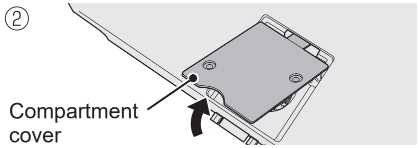
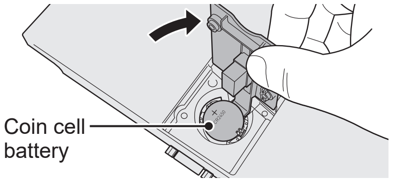


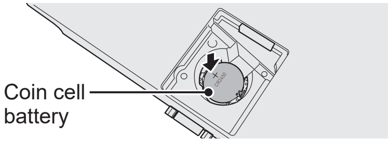
2 **Using the compartment cover, take out the coin cell battery.**

Pick up the coin cell battery with the hook of the compartment cover.



3 **Put a new coin cell battery and attach the compartment cover with the 2 compartment cover fixing screws.**

①



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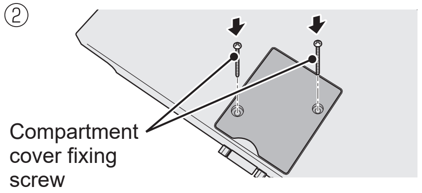
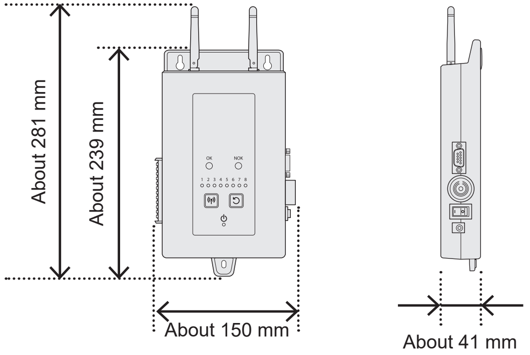


CAPACITY AND SPECIFICATIONS

Controller Specifications

Receiving fastening completion and failure signals during indoor product assembly work

Model No.	EYFRW2
Power Supply	100 V-240 V AC, 50/60 Hz
Wireless Communication Standard	Wireless LAN (IEEE.802.11 a/b/g/n)
Frequency Band	2.4 GHz: 2.412 GHz to 2.472 GHz 5 GHz: 5.180 GHz to 5.240 GHz
Channel	2.4 GHz: 1 to 13 channels 5 GHz: 36, 40, 44, 48 channels
Transmit power [*1]	2.4 GHz: 89 mW 5 GHz: 141 mW
Coverage	2.4 GHz: About 16 m 5 GHz: About 10 m
Number of Tools That Can Be Registered	8 (maximum)
Input/output (I/O) Terminals	8 inputs and 8 outputs
Input Terminal Rating	24 V DC, 50 mA
Output Terminal Rating	30 V DC, 3 A
Power Consumption	About 30 W
Operating Temperature and Humidity Ranges	0 °C to 45 °C, 20% to 90%
Size (Estimated Dimensions) Total Length × Total Height × Width	About 150 × 239 × 41 mm (height including antennas: 281 mm) 
Mass (Weight)	About 550 g (main unit only)
Communication interface	Ethernet × 2, RS232C × 1, USB-A × 1
Number of Data That Can Be Stored	About 200,000 fastening history logs (including waveform data)
Compatible Tool Models	EYFMH1WC, EYFMH2WC, EYFMH1WP, EYFMH2WP

---

*1 The transmit power has been measured by a third-party organization.

Wireless Specifications

Frequencies by channel

Frequency Band	Channel	Frequency
2.4 GHz	Channel 1	2.412 GHz
	Channel 2	2.417 GHz
	Channel 3	2.422 GHz
	Channel 4	2.427 GHz
	Channel 5	2.432 GHz
	Channel 6	2.437 GHz
	Channel 7	2.442 GHz
	Channel 8	2.447 GHz
	Channel 9	2.452 GHz
	Channel 10	2.457 GHz
	Channel 11	2.462 GHz
	Channel 12	2.467 GHz
	Channel 13	2.472 GHz
5 GHz	Channel 36	5.180 GHz
	Channel 40	5.200 GHz
	Channel 44	5.220 GHz
	Channel 48	5.240 GHz

WebUI Specifications

Compatible OS	Windows 10 or later (supporting any of the web browsers below)
Supported Web Browser	Microsoft Edge version 102 or later or Google Chrome version 102 or later
Supported language	English, Japanese
Recommended screen resolution	1024 × 768 or more

CAUTION

- Some PCs are not available even if they meet the operating environment.
- Depending on the use environment etc. of your PC, the descriptions and screens in this Operating Instructions might be different from the actual descriptions and screens.
  Please be forewarned.
- The contents of this Operating Instructions are subject to change without prior notice.
- Any reproduction of the contents of this Operating Instructions in whole or in part is prohibited without permission.
- Descriptions on how to operate Windows in this Operating Instructions use the procedures and screens of Windows 10.
- WebUI does not work on OS other than the compatible OS.
- Operation is not guaranteed for all the PCs meeting the recommended environment.

■ Terms of use (Read before use)

<Limitations>
WebUI is configuration software for EYFRW2.

CAUTION

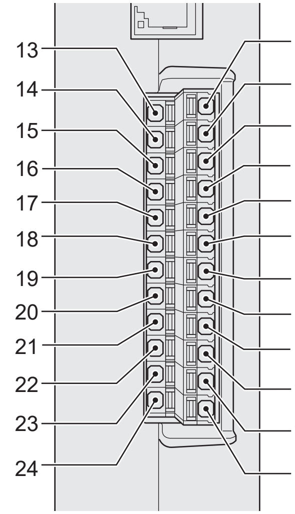
- Observe the following when using the feature.
  You are deemed to agree the following terms of use by using the feature.

[Use conditions]
Panasonic makes no warranty of any kind regarding the feature.
Panasonic bears no responsibility for any damage including but not limited to direct loss, indirect loss, spreading loss, consequential loss, and special loss caused by use or operation of the feature.
Unauthorised reproduction and distribution of the feature is prohibited.

CAPACITY AND SPECIFICATIONS (cont.)

Contact I/O Specifications

■ Assignment between output relay terminals and input terminals


13
14
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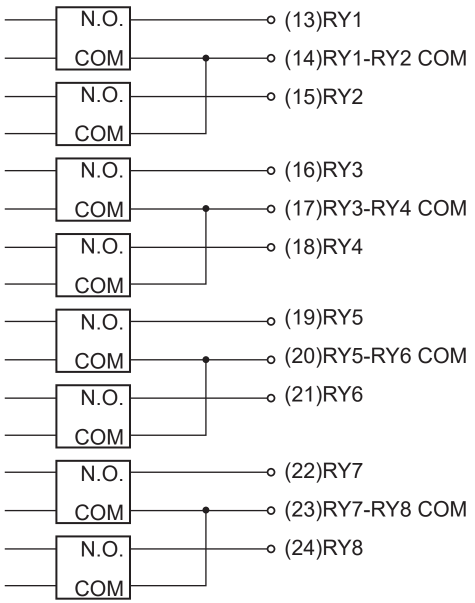
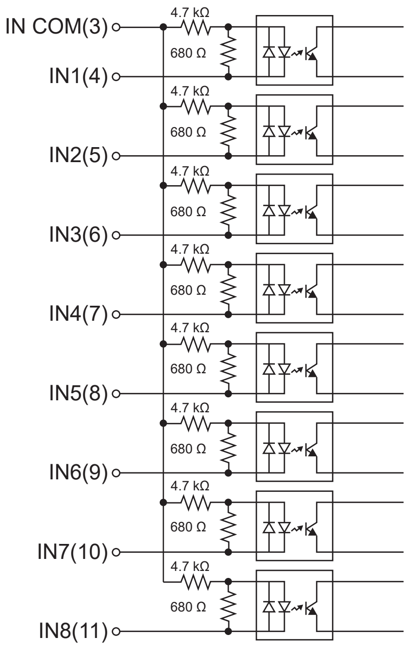
8
9
10
11
12

No.	Pin assignment
1	+24 V
2	+24 V
3	IN COM
4	IN 1
5	IN 2
6	IN 3
7	IN 4
8	IN 5
9	IN 6
10	IN 7
11	IN 8
12	24 V return

No.	Pin assignment
13	RY1
14	RY1-RY2 COM
15	RY2
16	RY3
17	RY3-RY4 COM
18	RY4
19	RY5
20	RY5-RY6 COM
21	RY6
22	RY7
23	RY7-RY8 COM
24	RY8

■ Terminal block connection diagram


N.O.
COM
(13)RY1
(14)RY1-RY2 COM
(15)RY2
(16)RY3
(17)RY3-RY4 COM
(18)RY4
(19)RY5
(20)RY5-RY6 COM
(21)RY6
(22)RY7
(23)RY7-RY8 COM
(24)RY8


IN COM(3)
IN1(4)
IN2(5)
IN3(6)
IN4(7)
IN5(8)
IN6(9)
IN7(10)
IN8(11)
4.7 kΩ
680 Ω

RADIO CERTIFICATION

PRECAUTIONS FOR WIRELESS COMMUNICATION

Cautions for using a WLAN device

The device uses a frequency band shared with other types of equipment including industrial, scientific, and medical devices (e.g., a microwave) and radio stations such as a premises radio station (licenced) and low-power radio station (unlicenced) for mobile identification used in factory manufacturing lines and an amateur radio station (licenced).

1. Before using the device, confirm that there is no premises or low-power radio station for mobile identification or no amateur radio station operating in the vicinity.
2. If the device causes harmful interference with a premises radio station for mobile identification, stop use of the band immediately and consult the support centre below for the solution of the interference problem (e.g., installing a partition).
3. If the device causes harmful interference with a premises or low-power radio station for mobile identification or an amateur radio station or such other problems, consult the support centre.

RADIO CERTIFICATION (cont.)

■ There may be noise, shorter radio coverage, or malfunction occurring in the following environmental conditions.

- There is an obstruction (e.g., a metal or reinforced concrete object) that prevents smooth radio propagation between the wireless-enabled tool unit and the controller.
- The antennas of the controller are covered with metal.
- An operator’s body is interfering with radio propagation between an operator (the wireless-enabled tool unit) and the controller.
- There is a microwave, PC, or any other device causing noise in the vicinity.
- A cell-phone or PHS phone is used near the wireless-enabled tool unit and the controller.

LICENCE TERMS

Software Licence Terms

This product incorporates the following software:

(1) the software developed independently by or for Panasonic Corporation,
(2) the software owned by third party and licenced to Panasonic Corporation,
(3) the software licenced under the GNU General Public License, Version 1.0 (GPL V1.0),
(4) the software licenced under the GNU General Public License, Version 2.0 (GPL V2.0),
(5) the software licenced under the GNU General Public License, Version 3.0 (GPL V3.0),
(6) the software licenced under the GNU LESSER General Public License, Version 2.1 (LGPL V2.1),
(7) the software licenced under the GNU LESSER General Public License, Version 3.1 (LGPL V3.1),
(8) the software licenced under the SMAIL General Public License(SMAIL),
(9) the software licenced under the Mozilla Public License Version 1.1 (MPL V1.1),
(10) the software licenced under the Mozilla Public License Version 2.0 (MPL V2.0), and/or
(11) open source software other than the software licenced under the GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL, MPL V1.1 and/or MPL V2.0.

The software categorized as (3) - (11) are distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

For details on the copyright holders and licences, see from page 93 onwards.

At least 3 years from delivery of this product, Panasonic will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL or the other licences with the obligation to do so, as well as the respective copyright notice thereof.

Contact Information: oss-cd-powertools-gl@ml.jp.panasonic.com

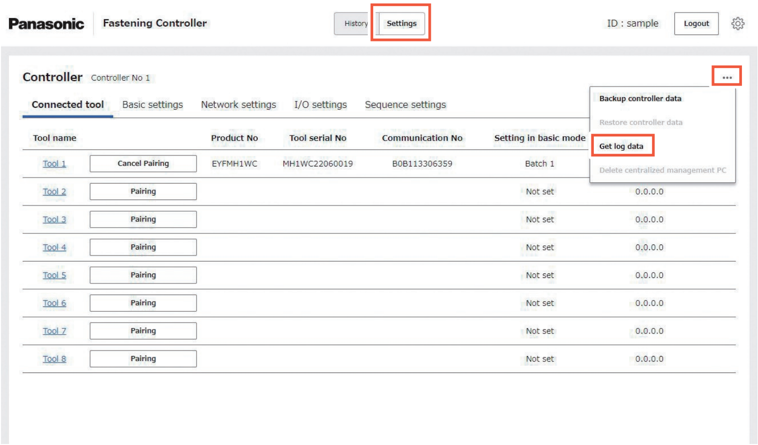
ERROR CODE

Device	Error Code	Type	Category	Event	Action
Controller	0xEF21	Warning	Hardware failure	Secondary CPU error (failure)	Restart the controller. If the problem persists, the device may be broken. Contact your dealer.
	0xEF51	Warning	Hardware failure	Ether0 error	The device may be broken. Contact your dealer.
	0xEF52	Warning	Hardware failure	Ether1 error	The device may be broken. Contact your dealer.
	0xEF61	Warning	Hardware failure	Wi-Fi module error (failure)	Restart the controller. If the problem persists, the device may be broken. Contact your dealer.
	0xCE42	Error	Software failure	Setting content error	Factory-reset the controller and make settings again.
	0xCE43	Error	Software failure	Retraction information error	Hold down the reset key on the controller 3 seconds or more.
	0xEC61	Warning	Software failure	Capacity to store the fastening history is full (operation suspended)	Delete the fastening history logs in the fastening history screen to free up some capacity. Export them before deleting as necessary.
Tool	0x4301	Caution	Software failure	Storage capacity is full	Access the tool setting software (Tool Manager software) and delete the work history logs.
	0x4302	Caution	Software failure	The number of sent results in a queue has reached the upper limit.	The tool cannot communicate with the controller. Change the workplace. If the problem persists, the device may be broken. Contact your dealer.
	0x3303	Error	Software failure	Motor control microcontroller reset detected	An error that occurred has been solved.
	0x3304	Error	Software failure	Torque calculation microcontroller reset detected	An error that occurred has been solved.

Device	Error Code	Type	Category	Event	Action
Tool	0x4305	Caution	Software failure	Low RTC battery	Replace the coin cell battery inside the tool unit.
	0x4306	Caution	Software failure	Firmware update error	Confirm that the firmware file is correct.
	0x4315	Caution	Software failure	USB communication error	An error that occurred has been solved.
	0x4316	Caution	Software failure	Wi-Fi module restarted	An error that occurred has been solved.
	0x1401	Warning	Hardware failure	Wi-Fi module error	An error that occurred has been solved.
	0x1402	Warning	Hardware failure	Motor control microcontroller error	An error that occurred has been solved.
	0x1403	Warning	Hardware failure	Torque calculation microcontroller error	An error that occurred has been solved.
	0x1404	Warning	Hardware failure	External flash drive error	An error that occurred has been solved.
	0x1405	Warning	Hardware failure	RTC error	An error that occurred has been solved.
	0x1406	Warning	Hardware failure	Circuit identification error	An error that occurred has been solved.
	0x1407	Warning	Hardware failure	No remaining swap space	An error that occurred has been solved.
	0x1408	Warning	Hardware failure	Damaged parameter space	An error that occurred has been solved.

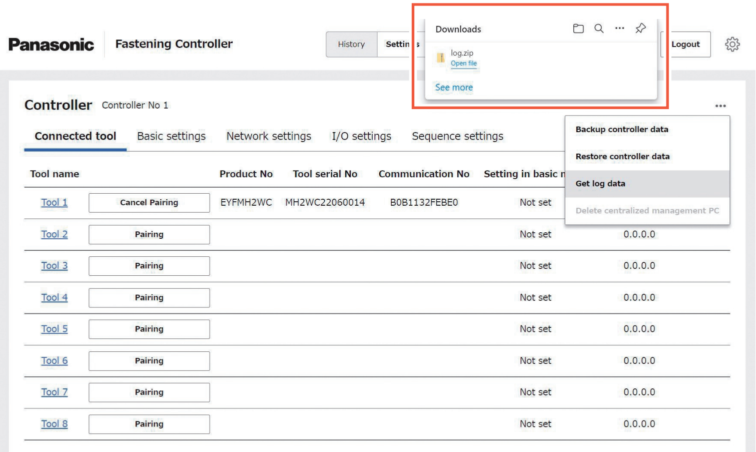
OPERATION LOG DATA

In the top page (the initial page of the setting screen), click [Settings] on the top.
Click ··· (controller option key) and then [Get log data].
You can get the operation logs of the controller.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

▼


Panasonic
Fastening Controller
History
Settin s
Logout
Downloads
log.zip
Open file
See more
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic r	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

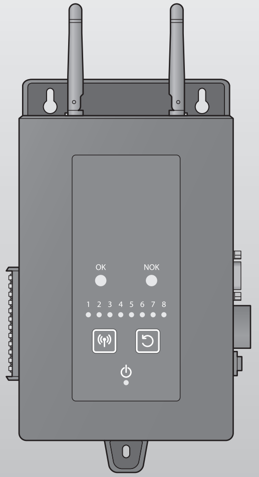
Panasonic®

Bedienungsanleitung

Werkzeugcontroller

Modell-Nr.:

EYFRW2


OK
NOK
1 2 3 4 5 6 7 8

WICHTIG
Lesen und befolgen Sie die Sicherheitsanweisungen und die Bedienungsanleitung, bevor Sie dieses Produkt benutzen.
Verwenden Sie die Drahtlos-Funktion nicht außerhalb des Landes, in dem Sie das Produkt erworben haben.
Dies könnte gegen örtliche Gesetze und Vorschriften verstoßen.

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ERSTE SCHRITTE

Betriebsumgebung

Sie müssen einen Webbrowser verwenden, um den Controller zu konfigurieren.
Bereiten Sie einen PC vor, der die folgenden Anforderungen erfüllt.

Betriebsumgebung

Kompatibles Betriebssystem	Windows 10 oder höher (mit Unterstützung für einen der unten aufgeführten Webbrowser)
Webbrowser	Microsoft Edge Version 102 oder höher oder Google Chrome Version 102 oder höher

- Einige PCs können nicht verwendet werden, auch wenn sie den Anforderungen der Betriebsumgebung entsprechen.
- In Abhängigkeit von der Verwendungsumgebung usw. Ihres PCs können die Beschreibungen und Bildschirme in dieser Bedienungsanleitung von den tatsächlichen Beschreibungen und Bildschirmen abweichen.
  Bitte behalten Sie dies stets im Hinterkopf.
- Der Inhalt dieser Bedienungsanleitung kann ohne vorherige Ankündigung geändert werden.
- Jede Vervielfältigung des Inhalts dieser Bedienungsanleitung, auch auszugsweise, ohne Genehmigung ist untersagt.
- Die Abbildungen in dieser Bedienungsanleitung dienen nur als Referenz.

[Hinweis]
Halten Sie die Firmware immer auf dem neuesten Stand.
Die neuesten Firmware-Daten finden Sie auf der folgenden Website, die Zugriff auf die Bedienungsanleitung bietet.
Informationen zur Aktualisierung der Firmware finden Sie unter „Aktualisierung der Firmware“. **Siehe S. 81**

Zugriff auf die Bedienungsanleitung

Die aktuelle Version der Bedienungsanleitung des Controllers und andere Ressourcen können von der untenstehenden Website heruntergeladen werden.

https://www.panasonic-powertools.eu/de/construction/dokumente.htm

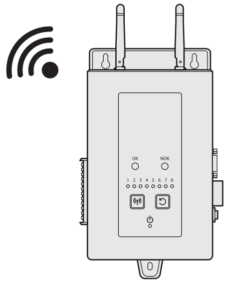
Marken

- Microsoft und Windows sind entweder eingetragene Marken oder Marken der Microsoft Corporation in den USA und/oder anderen Ländern.
- Die Bildschirmfotos werden in Übereinstimmung mit den Richtlinien der Microsoft Corporation verwendet.
- Wi-Fi und das Wi-Fi-Logo sind eingetragene Marken der Wi-Fi Alliance.

Die anderen Namen, einschließlich der Firmennamen und Produktnamen in dieser Bedienungsanleitung sind Marken oder eingetragene Marken der jeweiligen Unternehmen.
™ und ® wurden in dieser Bedienungsanleitung weggelassen.

Bestimmungsgemäße Verwendung

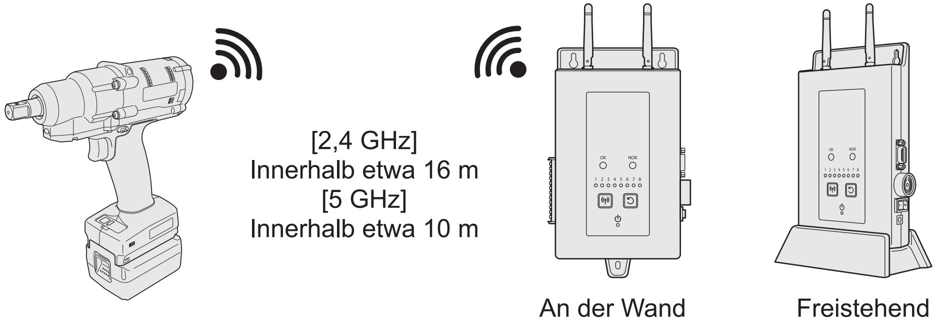
Dieses Produkt ist ein Controller, der drahtlos mit Werkzeugen kommuniziert.
Es kann die Befestigungsverlaufsdaten von den Werkzeugen empfangen, Einstellungen der Werkzeuge vornehmen und die Menge der Befestigungen steuern.



01	Verbindung mit bis zu 8 Werkzeugen
02	Unterstützung der 2,4-GHz- und 5-GHz-Bänder
03	Unterstützung einer Befestigungssteuerungsfunktion und einer Verlaufsspeicherungsfunktion

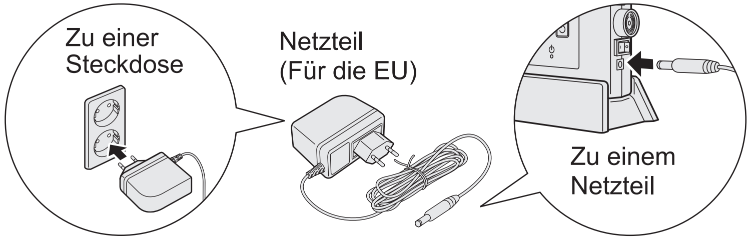
Einrichtung

Installieren Sie den Controller in einem Bereich, in dem eine drahtlose Kommunikation mit den Werkzeugen möglich ist.
Versorgen Sie das Gerät über eine Netzsteckdose mit Strom und verbinden Sie es bei Bedarf über die Kommunikationsschnittstellen mit externen Geräten.



An der Wand hängend

Freistehend



- Der Controller enthält eine Knopfzellenbatterie, um die Uhrfunktion (RTC) am Laufen zu halten.
  Es wird empfohlen, das Gerät eingeschaltet zu lassen, um den Verbrauch der internen Knopfzellenbatterie zu verringern.
- Die Reichweite der drahtlosen Verbindung kann sich in Abhängigkeit von der Umgebung ändern.

SICHERHEITSVORKEHRUNGEN Halten Sie sich stets an die Anweisungen

Nachfolgend finden Sie die Anweisungen, die unbedingt zu beachten sind, um Personen- und Sachschäden zu vermeiden.

■ **Die Schwere der Verletzungen und Beschädigungen, die durch unsachgemäßen Gebrauch verursacht werden, wird im Folgenden beschrieben.**

⚠ **WARNUNG**	Kann tödliche oder schwere Verletzungen verursachen.
⚠ **VORSICHT**	Kann leichte Verletzungen oder Sachschäden verursachen.

■ **Der zu beachtende Inhalt wird mit den folgenden Symbolen dargestellt. (Nachfolgend sind Beispiele aufgeführt)**

⃠	Darf NICHT getan werden.
❗	MUSS getan werden.

⚠ WARNUNG

❗ **Obligatorisch**	● **Vergewissern Sie sich, dass sich am Installationsort keine verborgenen Gegenstände, wie zum Beispiel elektrische Leitungen, Wasser- oder Gasleitungen, befinden.** Das Berühren solcher verborgener Gegenstände kann einen Stromschlag verursachen oder zu einem Leckstrom oder Gasaustritt führen.
	● **Stecken Sie den Netzstecker bis zum Anschlag ein.** Unvollständiges Einstecken kann zu einem Stromschlag oder einer Wärmeentwicklung führen, die ein Feuer verursachen kann. Verwenden Sie keinen beschädigten Stecker oder keine lockere Steckdose.
	● **Reinigen Sie den Netzstecker regelmäßig vom Staub.** Staubansammlungen auf dem Stecker können Feuchtigkeit absorbieren und eine schlechte Isolierung verursachen, was zu einem Feuer führen kann. Ziehen Sie den Netzstecker heraus und wischen Sie ihn mit einem trockenen Tuch ab.
	● **Verwenden Sie nur das angegebene Netzkabel.** Die Verwendung eines anderen Steckers kann einen Stromschlag, Kurzschluss oder ein Feuer verursachen.
	● **Sorgen Sie für ausreichende Beleuchtung am Arbeitsplatz.** Schlechte Sicht an einem dunklen Arbeitsplatz kann zu einem Unfall oder einer Verletzung führen.

⚠ WARNUNG

⃠ **Untersagt**	● **Bei der Verwendung der Steckdose und dem Anschließen des Geräts darf der Nennwert nicht überschritten werden. Verwenden Sie nur 100 V-240 V Wechselstrom.** Eine Überschreitung des Nennwerts aufgrund einer überlasteten Steckdose kann zu Wärmeentwicklung und damit zu einem Feuer führen.
	● **Beschädigen Sie das Netzkabel oder den Stecker nicht. (Vermeiden Sie Beschädigungen, Brüche, Veränderungen, die Nähe zu einer Wärmequelle, gewaltsames Verbiegen, Verdrehen, Ziehen, schwere Lasten auf dem Gerät, Quetschen oder Abbinden)** Die Verwendung eines beschädigten Kabels oder Steckers kann einen Stromschlag, Kurzschluss oder ein Feuer verursachen. Überprüfen Sie das Kabel und den Stecker regelmäßig und wenden Sie sich bei einer Beschädigung an Ihren Händler.
	● **Verwenden Sie den Controller nicht mit einer Gleichstromversorgung, einem Motorgenerator oder einem Transformator.** ● **Verwenden Sie den Controller nicht an einem Ort mit brennbaren Flüssigkeiten oder Gasen.** Andernfalls besteht die Gefahr von Wärme- oder Rauchentwicklung, Feuer oder einer Explosion.
	● **Bringen Sie den Controller nicht an einer Mörtelwand an.** Das Einschrauben an einer Mörtelwand kann zu einer Wärmeentwicklung durch das Drahtgeflecht im Inneren führen, was im Falle eines elektrischen Lecks ein Feuer verursachen kann.
	● **Ziehen Sie den Netzstecker zwischen den Verwendungen ab.** Wenn Sie den Netzstecker angeschlossen lassen, kann dies zu einer schlechten Isolierung führen, die einen Stromschlag oder ein Feuer aufgrund von Leckstrom verursachen kann.
⃠ **Nicht zerlegen**	● **Verändern Sie den Controller nicht. Der Controller darf nicht zerlegt oder repariert werden.** Andernfalls kann es zu einem Feuer, Stromschlag oder einer Verletzung kommen. Wenden Sie sich zur Reparatur an Ihren Händler oder an unser Kundendienstzentrum.
⃠ **Trocken halten**	**Vermeiden Sie die folgende Verwendung der geladenen Werkzeuge.** ● **Verwenden oder lagern Sie sie nicht an Orten, die Regen oder Feuchtigkeit ausgesetzt sind.** ● **Verwenden Sie sie nicht unter Wasser.** Andernfalls kann es zu Rauchentwicklung, Feuer oder Explosionen kommen.
⃠ **Nicht mit nassen Händen berühren**	● **Schließen Sie den Netzstecker nicht mit nassen Händen an die Steckdose an oder ziehen ihn ab.** Dadurch besteht die Gefahr eines Stromschlags.

SICHERHEITSVORKEHRUNGEN Halten Sie sich stets an die Anweisungen

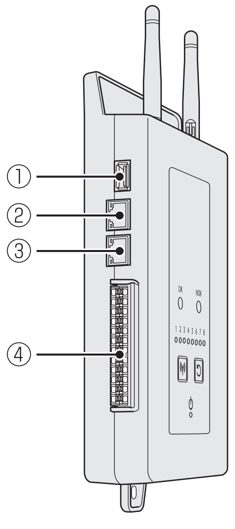
⚠ VORSICHT

Untersagt	● **Verwenden Sie den Controller nicht für einen anderen Zweck als vorgesehen.** Dies kann zu einer Verletzung führen.
	● **Platzieren Sie den Controller nicht an einem Ort, der für Kinder zugänglich ist.** Dadurch kann es zu einem Unfall oder einer Störung kommen.
	● **Verwenden Sie den Controller nicht, wenn Öl oder andere Fremdkörper daran haften.** Solches Öl oder andere Fremdkörper können in das Innere des Geräts eindringen, was zu Wärmeentwicklung, Feuer oder Bersten führen kann.
	● **Lagern Sie den Hauptteil nicht an einem Ort, an dem die Temperatur auf 45 °C oder mehr ansteigen kann.** Dadurch kann es zu einer Funktionsstörung kommen.
	● **Arbeiten Sie nicht in einer ungewöhnlichen Haltung.** Dadurch können Sie stürzen und sich verletzen. Stehen Sie immer auf einem stabilen Untergrund und achten Sie auf Ihr Gleichgewicht.
	● **Verwenden Sie den Controller nicht, wenn Sie müde sind.** Dadurch kann es zu einem Unfall oder einer Verletzung kommen.
	● **Lassen Sie kein Kind oder andere unqualifizierte Person in die Nähe des Arbeitsplatzes oder den Controller berühren.** Dies kann zu einer Verletzung führen.
	● **Verwenden Sie den Controller nicht mit inkompatiblen Geräten.** Dadurch kann es zu einer Fehlfunktion kommen, die zu einem Unfall führt.
Obligatorisch	● **Wenn Sie den Controller an einer Wand montieren, sichern Sie ihn mit Schrauben, damit er nicht herunterfällt.** Sie können verletzt werden, wenn er herunterfällt.
	● **Um den Netzstecker abzuziehen, halten Sie immer den Netzstecker fest, ohne am Kabel zu ziehen.** Das Ziehen am Kabel kann einen Stromschlag oder einen Kurzschluss verursachen.
	● **Überprüfen Sie vor der Verwendung den Controller und die anderen Teile auf Beschädigungen und kontrollieren Sie deren normale Funktion.** Andernfalls kann es zu einem Schaden kommen, der zu einer Verletzung führt.
	● **Halten Sie den Arbeitsplatz sauber.** Ein unordentlicher Arbeitsplatz oder Arbeitstisch kann zu einem Unfall führen.
	● **Überlegen Sie sich gut, wie Sie arbeiten wollen, achten Sie auf die Umgebung und benutzen Sie bei der Arbeit Ihren gesunden Menschenverstand.** Andernfalls kann es zu einem Unfall oder einer Verletzung kommen.

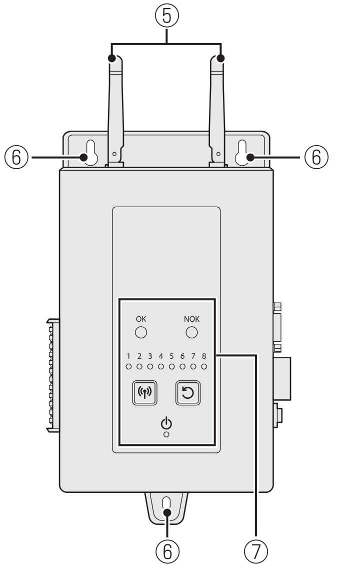
FUNKTIONSBESCHREIBUNG

Hauptteil

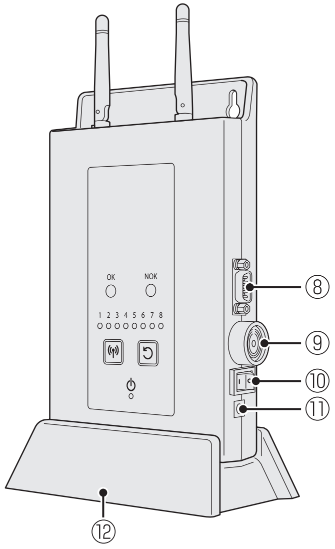
■ Linke Seite



■ Vorderseite

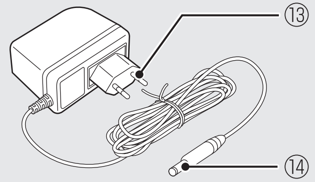


■ Rechte Seite

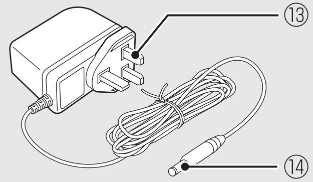


■ Netzteil

Für die EU



Für GB

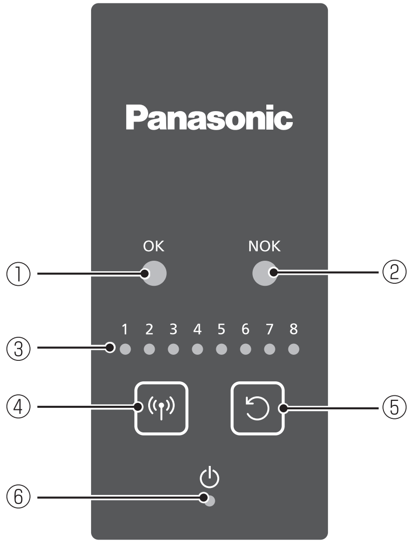


①	USB-Anschluss (Typ A)
②	Ethernetport (für die Wartung)
③	Ethernetport (für das Netzwerk)
④	1～24 E/A-Anschluss
⑤	Doppelantenne
⑥	Wandaufhängungsloch
⑦	Bedienfeld

⑧	IOIOI Serielle Schnittstelle (RS232C)
⑨	Summer
⑩	Netzschalter
⑪	Netzteilanschluss
⑫	Controllerfuß
⑬	Netzstecker
⑭	Stromanschluss

FUNKTIONSBESCHREIBUNG (Fortsetzung)

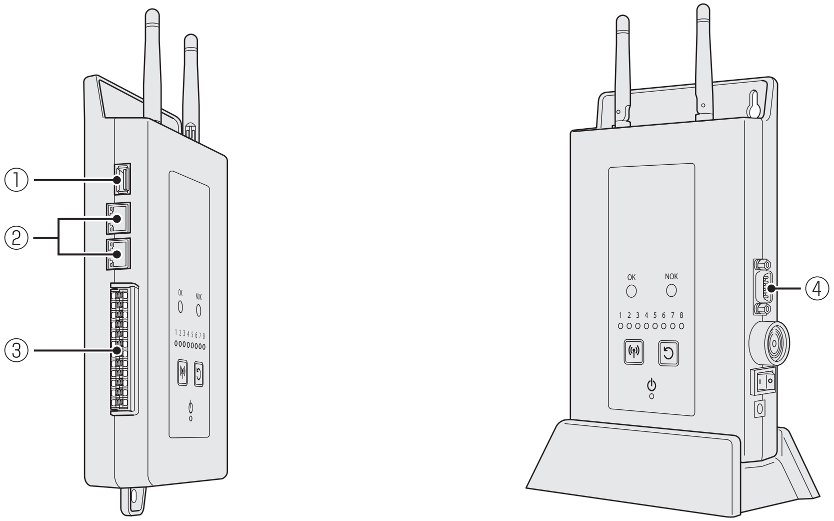
Bedienfeld



①	Befestigung-OK-Lampe Leuchtet grün: Ein Befestigungsabschlusssignal wurde empfangen. Aus: Das Befestigungsabschlusssignal wurde noch nicht empfangen.
②	Befestigung-NOK-Lampe Leuchtet rot: Ein Befestigungsfehlersignal wurde empfangen. Aus: Ein Befestigungsfehlersignal wurde noch nicht empfangen.
③	Kommunikationslampe (Nr. 1 bis Nr. 8) Leuchtet blau: Ein Werkzeug wurde registriert. Blinkt blau: Ein Werkzeug wird registriert oder befindet sich außerhalb der Reichweite. Aus: Es ist noch kein Werkzeug registriert.

④	Kopplungstaste
⑤	Zurücksetzentaste
⑥	Netzlampe Leuchtet gelb: Eingeschaltet (Empfangsmodus) Aus: Ausgeschaltet Blinkt gelb: Fehler

Kommunikationsschnittstelle

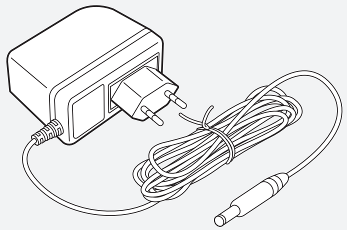


Schnittstelle		Details
①	USB	Verwenden Sie diesen Anschluss, um ein USB-Flashlaufwerk zur Aktualisierung der Firmware anzuschließen. • USB2.0 Typ-A × 1 • Direkter Anschluss eines USB-Flashlaufwerks (ohne Verlängerung)
②	Ethernet (für die Wartung und das Netzwerk)	Verwenden Sie diesen Anschluss, um eine Verbindung zu einem Konfigurations-PC oder einem Hostsystem herzustellen. • 10Base-T/100Base-TX × 2 • Kabellänge: Weniger als 30 m * Verbinden Sie den Ethernetport (für die Wartung) direkt mit einem Konfigurations-PC. (Keinen Hub verwenden)
③	Eingangs-/Ausgangsanschluss (E/A)	Verwenden Sie diesen Anschluss für die Verbindung mit einem externen Gerät (z. B. einer SPS). • 8 Eingänge und 8 Ausgänge • Kabellänge: 10 m oder weniger • Nennwert des Eingangsanschlusses: 24 V DC, 50 mA • Nennwert des Ausgangsanschlusses: 30 V DC, 3 A
④	Serielle Schnittstelle (RS232C)	Verwenden Sie diesen Anschluss für die Verbindung mit einem externen Gerät (z. B. einer SPS). • RS232C × 1 • Kabellänge: 10 m oder weniger

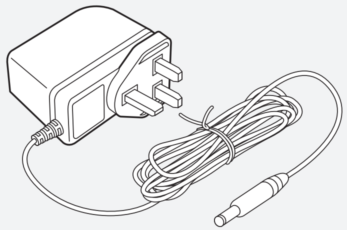
Zubehör

■ **Netzteil × 1**

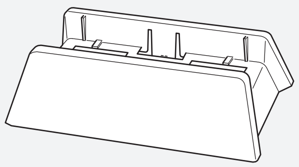
Für die EU
(WEYFRW1K7751)



Für GB
(WEYFRW1K7851)



■ **Controllerfuß × 1**
(EYFRW1F7001)



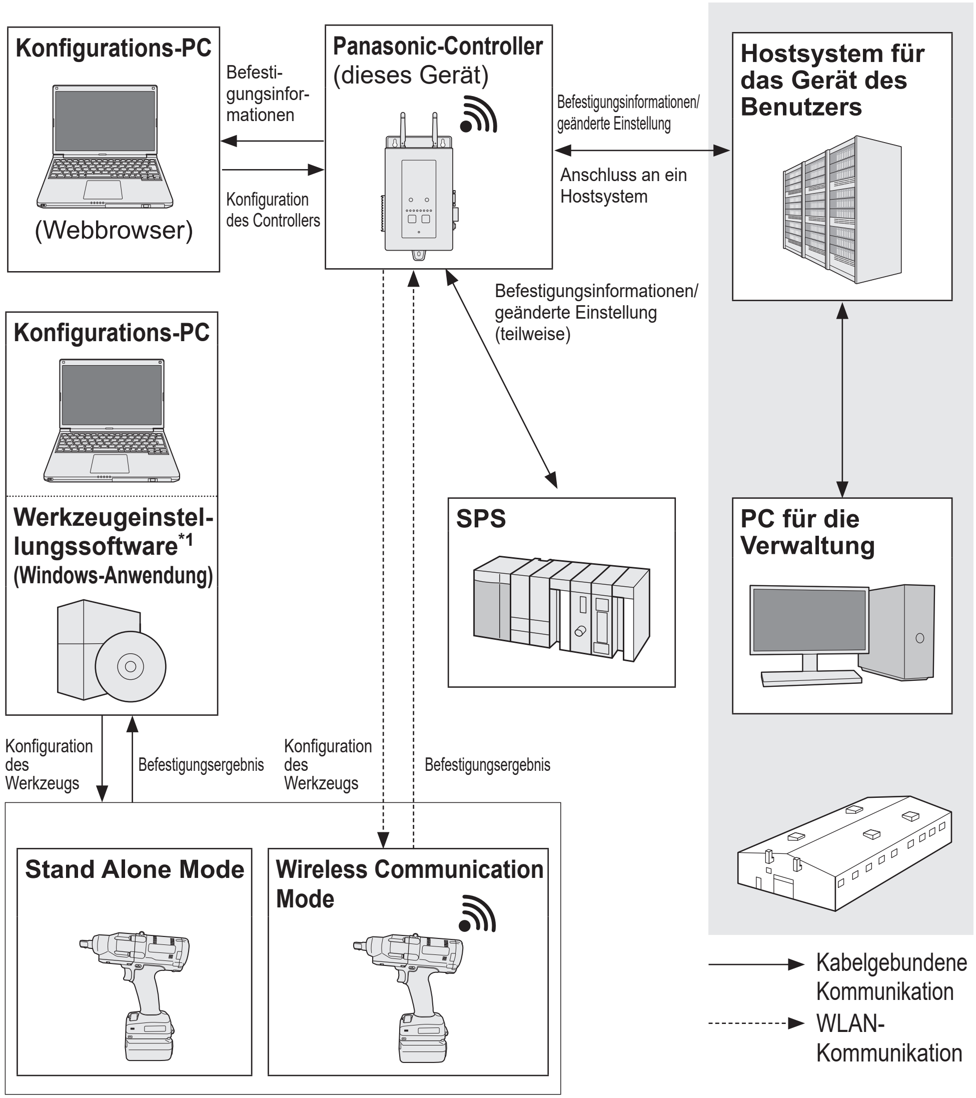
Verbrauchsmaterialien

■ **Knopfzellenbatterie** (CR2450) × 1
Informationen zum Austauschen finden Sie unter „Austauschen der Knopfzellenbatterie“.
Siehe S. 82

Panasonic
CR2450
3V

SYSTEMKONFIGURATION

Systemkonfiguration

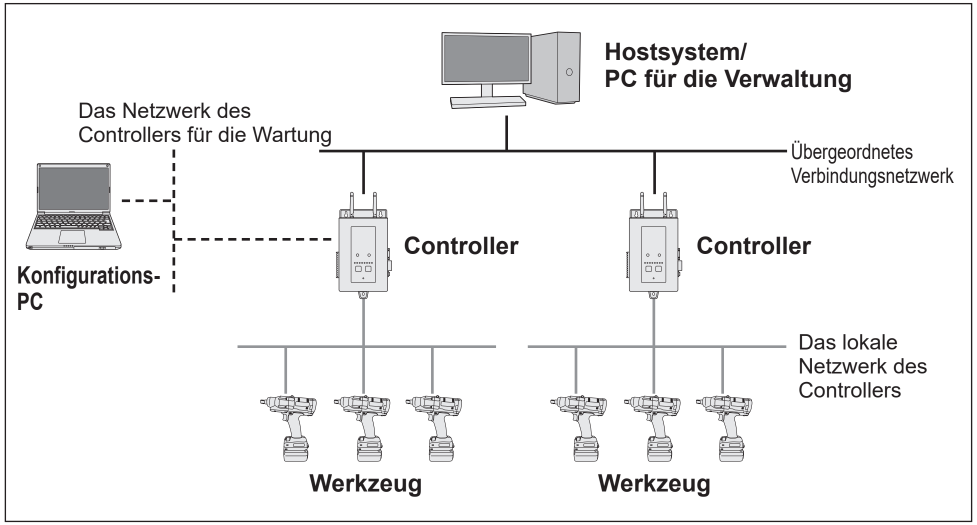

Konfigurations-PC
(Webbrowser)
Befestigungsinformationen
Konfiguration des Controllers
Panasonic-Controller
(dieses Gerät)
Befestigungsinformationen/
geänderte Einstellung
Anschluss an ein Hostsystem
Hostsystem für das Gerät des Benutzers
Befestigungsinformationen/
geänderte Einstellung
(teilweise)
Konfigurations-PC
Werkzeugeinstellungssoftware*1
(Windows-Anwendung)
SPS
PC für die Verwaltung
Konfiguration des Werkzeugs
Befestigungsergebnis
Konfiguration des Werkzeugs
Befestigungsergebnis
Stand Alone Mode
Wireless Communication Mode
Kabelgebundene Kommunikation
WLAN-Kommunikation

*1 Die „Werkzeugeinstellungssoftware“ kann von unserer Website heruntergeladen werden. **Siehe S. 2**

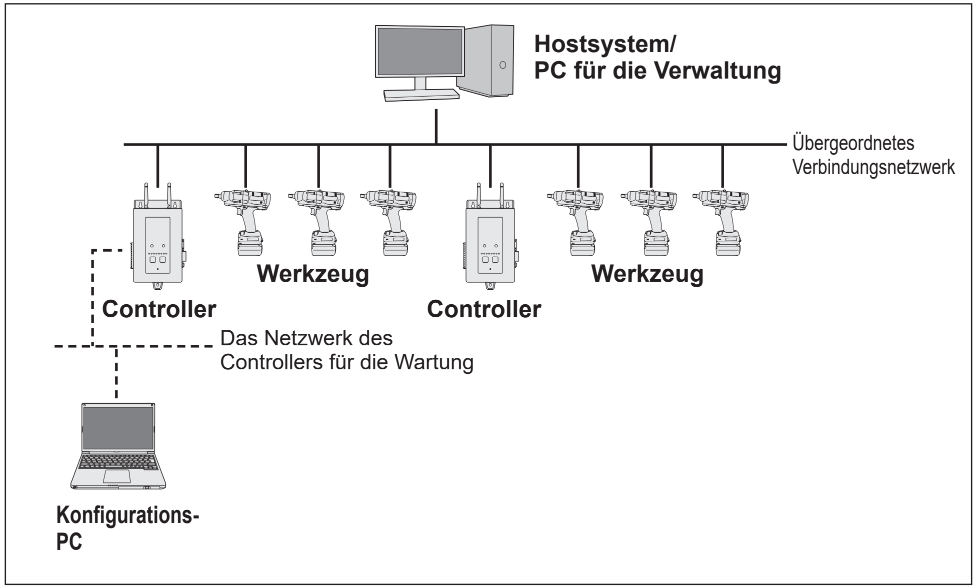
Typische Netzwerkkonfigurationen

Der Controller kann in den 3 folgenden Konfigurationen verwendet werden.

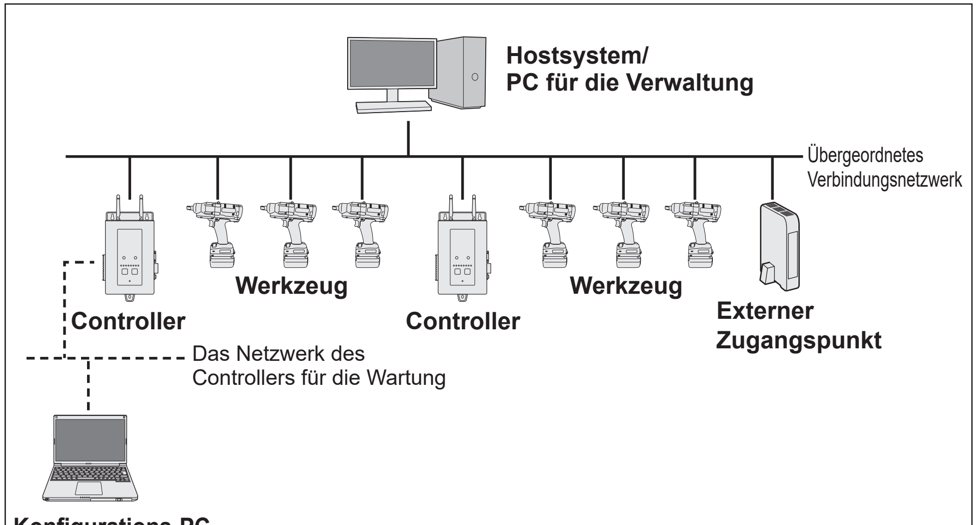
■ Keine Verwaltung der IP-Adressen der Werkzeuge
* Automatische Zuweisung (über den im Controller eingebauten Zugangspunkt)


Hostsystem/
PC für die Verwaltung
Das Netzwerk des Controllers für die Wartung
Übergeordnetes Verbindungsnetzwerk
Controller
Controller
Konfigurations-PC
Das lokale Netzwerk des Controllers
Werkzeug
Werkzeug

■ Verwaltung der IP-Adressen der Werkzeuge (mithilfe des in den Controller eingebauten Zugangspunktes)


Hostsystem/
PC für die Verwaltung
Übergeordnetes Verbindungsnetzwerk
Werkzeug
Werkzeug
Controller
Controller
Das Netzwerk des Controllers für die Wartung
Konfigurations-PC

■ Erkennung der IP-Adressen der Werkzeuge (über externe Zugangspunkte)


Hostsystem/
PC für die Verwaltung
Übergeordnetes Verbindungsnetzwerk
Werkzeug
Werkzeug
Controller
Controller
Externer Zugangspunkt
Das Netzwerk des Controllers für die Wartung
Konfigurations-PC

* Die Werkzeugeverwenden einen externen Zugangspunkt, um eine drahtlose Verbindung herzustellen.

* Verwenden Sie das System innerhalb Ihres lokalen Netzwerks (ohne Internetverbindung).
* Überprüfen Sie immer die Einstellung der IP-Adresse für das Netzwerk des Controllers, bevor Sie das Gerät in Betrieb nehmen. (Ändern Sie bei Bedarf die Standardeinstellung)

ANSCHLIESSBARE WERKZEUGE/ VORSICHTSMASSNAHMEN BEI DER INSTALLATION

Liste der anwendbaren Werkzeugmodelle

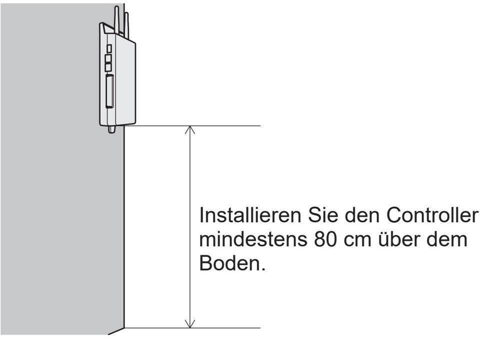
Modelle, die registriert werden können	EYFMH1WC, EYFMH2WC EYFMH1WP, EYFMH2WP

Vorsichtsmaßnahmen bei der Installation

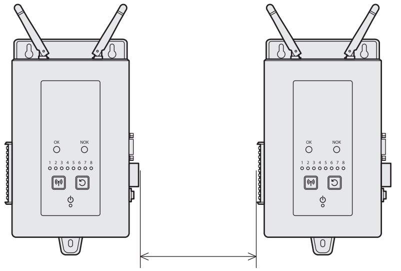
Installieren Sie den Controller mindestens 80 cm über dem Boden. Halten Sie einen Abstand von mindestens 10 cm zwischen den installierten Controllern ein.
(Mindestens 1 m wird empfohlen)
Halten Sie Hindernisse von den Antennen des installierten Controllers fern.
Der Controller hat 2 verschiedene Antennen. Halten Sie Hindernisse von beiden Antennen fern.

⚠ VORSICHT

Verwenden Sie für eine sichere Installation Holzschrauben mit einem Nenndurchmesser von 3,5 mm bis 4,1 mm.



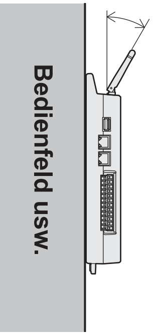
Installieren Sie den Controller mindestens 80 cm über dem Boden.



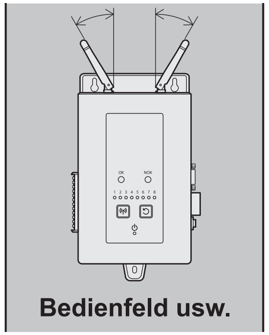
Halten Sie einen Abstand von mindestens 10 cm zwischen den installierten Controllern ein.

Passen Sie die Winkel der Antennen an, wenn die Kommunikation instabil ist.
* Insbesondere bei einem auf einer Metallplatte installierten Controller kann die Anpassung des Winkels der Antennen die Stabilität der Kommunikation verbessern.

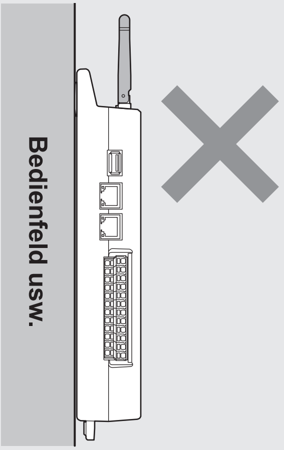
Neigen Sie die Antennen 30° bis 45° von der Wand.



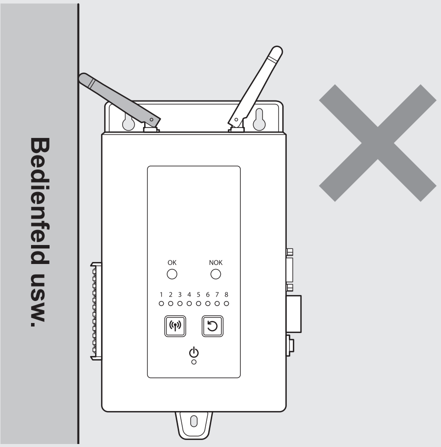
Neigen Sie die Antennen von vorn aus gesehen 30° bis 45° nach außen.



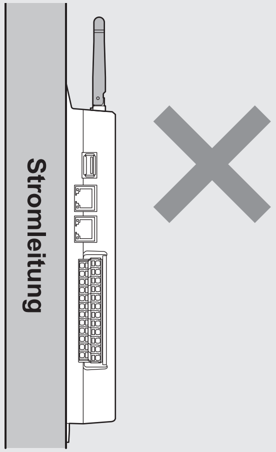
■ **Vermeiden Sie eine Installation unter den folgenden Bedingungen.**



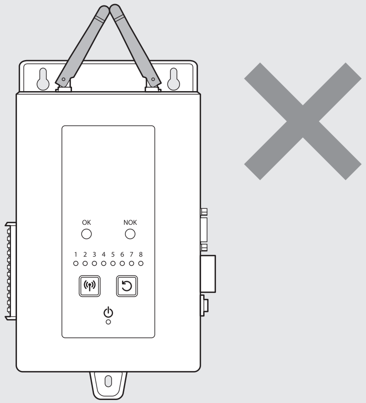
Die Antenne befindet sich parallel zum Bedienfeld (Metallplatte) auf der Rückseite.



Die Antenne berührt das Bedienfeld (die Metallplatte).



Der Controller ist sehr nahe an einer Stromleitung installiert.



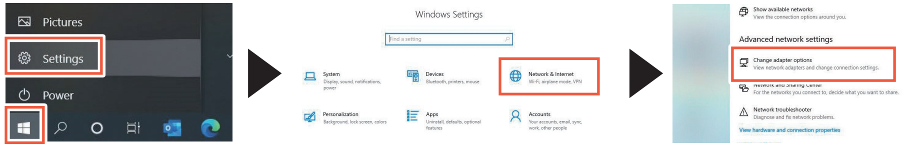
Die Antennen sind miteinander in Kontakt.

VORBEREITUNG VOR DER VERWENDUNG

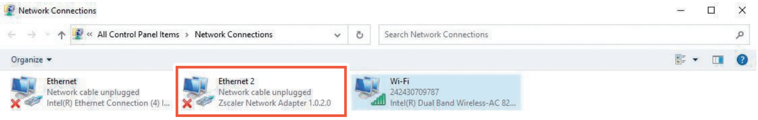
Netzwerkeinstellungen auf dem Konfigurations-PC

Legen Sie die Netzwerkeinstellungen auf dem Konfigurations-PC wie nachfolgend beschrieben fest, wenn Sie ihn und den Controller zum ersten Mal verbinden.

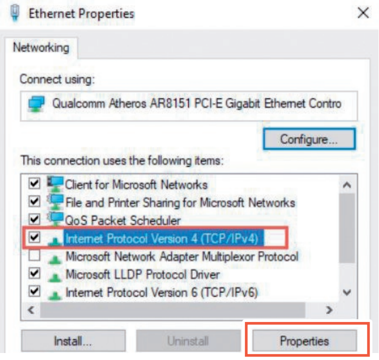
1 **Klicken Sie auf ⊞ unten links auf dem Bildschirm klicken Sie auf ⚙ (Settings) - [Network & Internet] - [Change adapter options].**


Pictures
Settings
Power
Windows Settings
Find a setting
System
Display, sound, notifications, power
Devices
Bluetooth, printers, mouse
Network & Internet
Wi-Fi, airplane mode, VPN
Personalization
Background, lock screen, colors
Apps
Uninstall, defaults, optional features
Accounts
Your accounts, email, sync, work, other people
Show available networks
View the connection options around you.
Advanced network settings
Change adapter options
View network adapters and change connection settings.
Network and Sharing Center
For the networks you connect to, decide what you want to share.
Network troubleshooter
Diagnose and fix network problems.
View hardware and connection properties

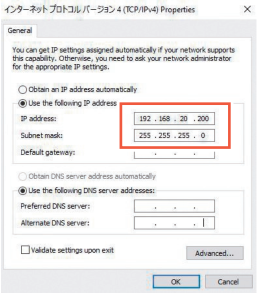
2 **Klicken Sie mit der rechten Maustaste auf das zu verbindende Gerät und klicken Sie auf [Properties].**


Network Connections
« All Control Panel Items › Network Connections
Search Network Connections
Organize ▾
Ethernet
Network cable unplugged
Intel(R) Ethernet Connection (4) I...
Ethernet 2
Network cable unplugged
Zscaler Network Adapter 1.0.2.0
Wi-Fi
242430709787
Intel(R) Dual Band Wireless-AC 82...

3 **Wählen Sie „Internet Protocol Version 4“ aus und klicken Sie auf [Properties].**


Ethernet Properties
Networking
Connect using:
Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Contro
Configure...
This connection uses the following items:
☑ Client for Microsoft Networks
☑ File and Printer Sharing for Microsoft Networks
☑ QoS Packet Scheduler
☑ Internet Protocol Version 4 (TCP/IPv4)
☐ Microsoft Network Adapter Multiplexor Protocol
☑ Microsoft LLDP Protocol Driver
☑ Internet Protocol Version 6 (TCP/IPv6)
Install...
Uninstall
Properties

4 **Legen Sie „IP address“ und „Subnet mask“ wie folgt fest.**


インターネット プロトコル バージョン 4 (TCP/IPv4) Properties
General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address
IP address: 192 . 168 . 20 . 200
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .
○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server: . . .
Alternate DNS server: . . .
☐ Validate settings upon exit

Advanced...
OK
Cancel

IP address	192	. 168	. 20	. 200
Subnet mask	255	. 255	. 255	. 0

* Wenn Sie die IP-Adresse des Controllers nach der ersten Verbindung geändert haben, aktivieren Sie die Verbindung, indem Sie die Netzwerkeinstellungen (IP-Adresse und Subnetzmaske) auf dem Konfigurations-PC zurückgeben. Legen Sie zu diesem Zeitpunkt die IP-Adresse so fest, dass der Controller und der Konfigurations-PC zum selben Netzwerk gehören.

* Notieren Sie sich die Netzwerkeinstellungen des Konfigurations-PC (IP-Adresse und Subnetzmaske), bevor Sie sie ändern.

* Es wird empfohlen, das Standardgateway nicht anzugeben (leer).

Anzeige des Einstellungsbildschirms

Um den Controller zu konfigurieren, rufen Sie ihn über einen Webbrowser auf. Rufen Sie den Einstellungsbildschirm des Controllers wie folgt auf.

Wenn Sie den Controller zum ersten Mal benutzen, entfernen Sie die Schutzfolie von der Knopfzellenbatterie.

1 **Schalten Sie den Controller ein.**

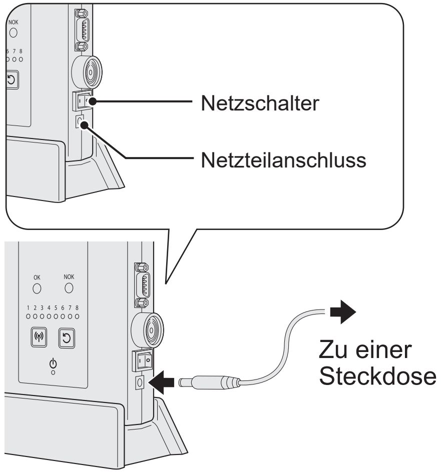
① Schließen Sie das mitgelieferte Netzteil an den Controller an und verbinden Sie den Netzstecker mit einer Steckdose.

② Schalten Sie den Netzschalter des Controllers ein.

* Das Starten dauert einige zig Sekunden.

* Während des Startens blinken die Befestigung-OK-Lampe, die Befestigungs-NOK-Lampe und die Kommunikationslampen (Nr. 1 bis Nr. 8) gemeinsam.

* Schließen Sie keine LAN-Kabel an.

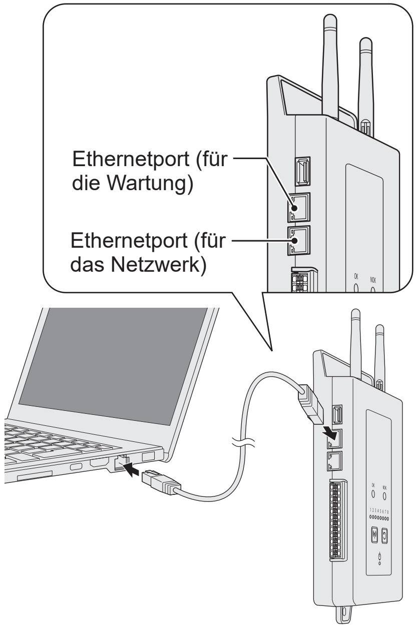

Netzschalter
Netzteilanschluss
Zu einer Steckdose
OK
NOK
1 2 3 4 5 6 7 8

2 **Verbinden Sie den Controller über ein LAN-Kabel mit dem Konfigurations-PC.**

① Schließen Sie ein LAN-Kabel an den Ethernetport des Controllers an.

* Der Controller hat 2 Ethernetports: einen für die Wartung und einen für das Netzwerk.
Verwenden Sie den für die Wartung für die erste Verbindung.

② Verbinden Sie den Konfigurations-PC mit dem LAN-Kabel.


Ethernetport (für die Wartung)
Ethernetport (für das Netzwerk)

3 Starten Sie einen Webbrowser auf dem Konfigurations-PC und greifen Sie auf den Controller zu.

① Starten Sie einen Webbrowser auf dem Konfigurations-PC. (Microsoft Edge wird empfohlen)

② Geben Sie die IP-Adresse des Controllers in die Adresszeile des Webbrowsers ein.

* Die Standard-IP-Adresse für den Ethernetport (für die Wartung) ist „192.168.20.10“.

> Geben Sie in der Adressleiste des Webbrowsers „http://192.168.20.10/controller“ ein, um Zugang zu erhalten.
>
> * Die Eingabe nur von „192.168.20.10/Controller“ ermöglicht ebenfalls den Zugriff.

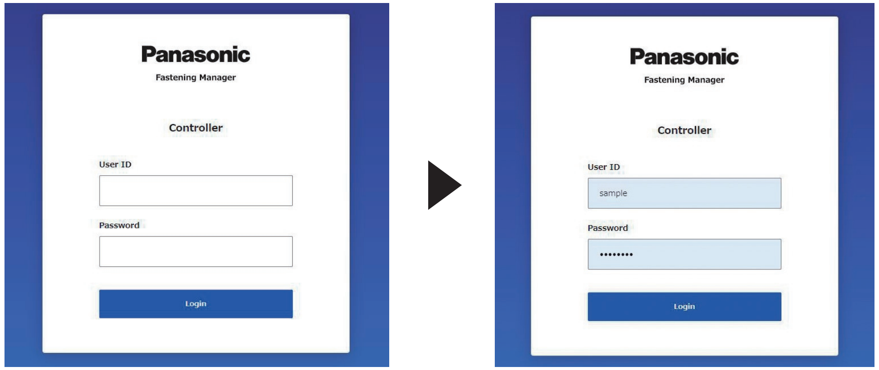
* Für den Zugriff über den Ethernetport (für das Netzwerk) siehe „Verbindung über das Netzwerk“. **Siehe S. 21**

* Die IP-Adresse ist auch auf dem Konfigurations-PC festzulegen.

③ Geben Sie auf dem angezeigten Anmeldebildschirm die Benutzer-ID und das Passwort ein.

* Die Benutzer-ID und das Passwort für die erstmalige Anmeldung sind nachfolgend aufgeführt.

④ Die Startseite (die erste Seite des Einstellungsbildschirms) wird angezeigt.



User ID: sample

Password: ********

Benutzer-ID und Passwort für die erstmalige Anmeldung

Melden Sie sich mit der nachfolgenden Benutzer-ID und dem Passwort an.

■ **Benutzer-ID:** **root**

■ **Passwort:** **abcABC123**

* Der Zugangstyp für die erstmalige Anmeldung ist „default“. Informationen zu den Kontotypen finden Sie unter „Kontotypen (Berechtigungen)“. **Siehe S. 19**

* Nur die Kontoerstellung ist möglich, wenn Sie sich mit der oben genannten Benutzer-ID und dem Passwort anmelden. Erstellen Sie ein neues Konto, bevor Sie mit der Verwendung beginnen.

* Aus Sicherheitsgründen wird empfohlen, das oben genannte Passwort nach der ersten Anmeldung zu ändern.

Kontotypen (Berechtigungen)

Nachfolgend sind die Kontotypen aufgeführt. Verwenden Sie sie entsprechend ihrer Anwendung.

Kontotyp	Funktion
Standard	• Für die erstmalige Anmeldung. **Siehe S. 18** Hinzufügen oder Ändern eines Benutzerkontos.
Administrator	• Anzeige des Befestigungsverlaufs. • Konfiguration des Controllers. • Konfiguration der Werkzeuge. • Hinzufügen oder Ändern eines Benutzerkontos. * Erstellen Sie mindestens ein Administratorkonto.
General	• Anzeige des Befestigungsverlaufs (einschließlich der Anzeige des Arbeitsmonitors).

Bis zu 10 Konten können registriert werden.
Auf diese Weise können sich mehr als ein Bediener gleichzeitig anmelden.

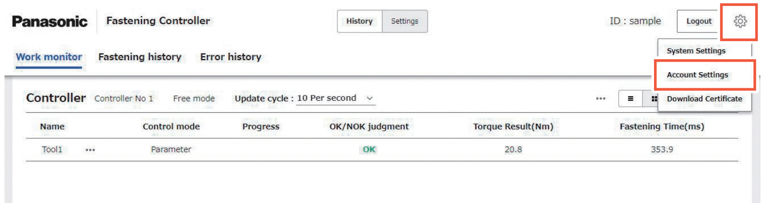
* Nur ein Konto kann sich gleichzeitig als Administrator anmelden.
Wenn mehrere Zugänge versucht werden, hat die letzte Sitzung den Vorrang.

Erstellen eines Benutzerkontos

Erstellen Sie ein neues Konto, bevor Sie mit der Verwendung beginnen.

1 Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) auf die Optionstaste oben rechts und wählen Sie „Account Settings“ aus.

Der Bildschirm „Account Settings“ wird angezeigt.



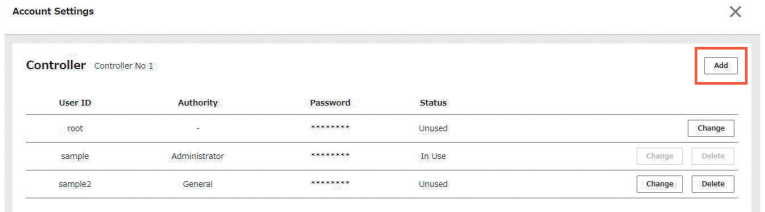
Controller Controller No 1 Free mode Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	Parameter		OK	20.8	353.9

2 Klicken Sie auf dem Bildschirm „Account Settings“ auf [Add].

Der Bildschirm „Add account“ wird angezeigt.

- Klicken Sie auf [Change], um das Konto zu ändern, und auf [Delete], um das Konto zu löschen.

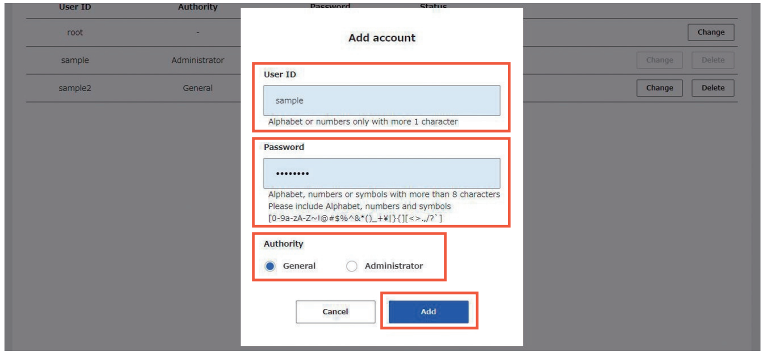


Controller Controller No 1

User ID	Authority	Password	Status
root	-	********	Unused
sample	Administrator	********	In Use
sample2	General	********	Unused

3 Geben Sie „User ID“ und „Password“ ein, wählen Sie „Authority“ aus und klicken Sie auf [Add].

* Erstellen Sie ein Administratorkonto, um die Werkzeuge zu konfigurieren.
* Verwenden Sie für ein Passwort immer eine Kombination aus 3 oder mehr Typen von Großbuchstaben, Kleinbuchstaben, Zahlen und Symbolen.



User ID	Authority	Password	Status	
root	-			Change
sample	Administrator			Change Delete
sample2	General			Change Delete

Add account

User ID: sample
Alphabet or numbers only with more 1 character

Password: ••••••••
Alphabet, numbers or symbols with more than 8 characters
Please include Alphabet, numbers and symbols
[0-9a-zA-Z~!@#$%^&*()_+¥|}{][<>.,/?`]

Authority: ● General ○ Administrator

[Referenz] Wenn Sie die Benutzer-ID oder das Passwort verloren haben

■ Allgemeines Konto

[Methode 1] Melden Sie sich als Administrator an und nehmen Sie die Änderungen des betreffenden Kontos vor.
* Ein normaler Benutzer kann die Benutzer-ID und das Passwort nicht ändern und muss einen Administrator bitten, sie zu ändern.

[Methode 2] Melden Sie sich mit einem neu erstellten Administratorkonto an und nehmen Sie die Änderungen an dem betreffenden Konto vor.
* Melden Sie sich mit der Benutzer-ID und dem Passwort für die erste Anmeldung an und erstellen Sie ein neues Administratorkonto. **Siehe S. 18**

■ Administratorkonto

A) Wenn mehrere Administratorkonten erstellt wurden

[Methode 1] Melden Sie sich mit einem anderen Administratorkonto an und nehmen Sie die Änderungen an dem betreffenden Konto vor.

[Methode 2] Melden Sie sich mit einem neu erstellten Administratorkonto an und nehmen Sie die Änderungen an dem betreffenden Konto vor.
* Melden Sie sich mit der Benutzer-ID und dem Passwort für die erste Anmeldung an und erstellen Sie ein neues Administratorkonto. **Siehe S. 18**

[Methode 3] Initialisieren Sie die Einstellungen, wenn Sie die IDs und Passwörter aller Administratorkonten verloren haben. **Siehe S. 79**

B) Wenn nur ein Administratorkonto erstellt wurde

[Methode 1] Melden Sie sich mit einem neu erstellten Administratorkonto an und nehmen Sie die Änderungen an dem betreffenden Konto vor.
* Melden Sie sich mit der Benutzer-ID und dem Passwort für die erste Anmeldung an und erstellen Sie ein neues Administratorkonto. **Siehe S. 18**

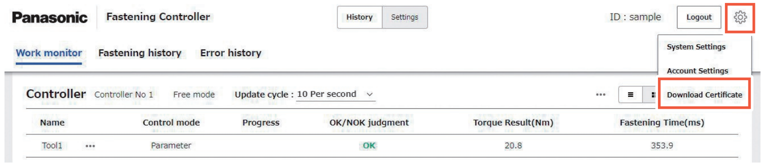
[Methode 2] Initialisieren Sie die Einstellungen, wenn Sie die IDs und Passwörter aller Administratorkonten verloren haben. **Siehe S. 79**

Erwerb eines Zertifikats

Für den Zugriff auf den Controller über den Ethernetport (für das Netzwerk) ist ein Zertifikat erforderlich.
Sie können ein Zertifikat wie folgt erwerben.

1 Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) auf die Optionstaste oben rechts und wählen Sie „Download Certificate“ aus.

Ein Zertifikat wird auf den Konfigurations-PC heruntergeladen.



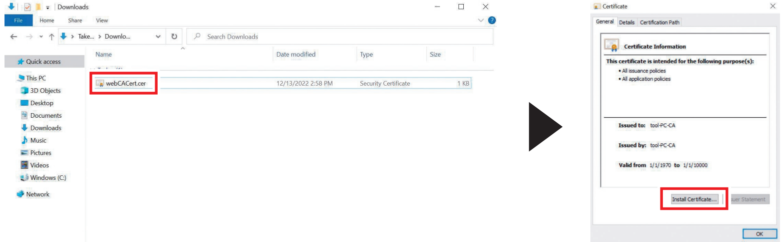
Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
System Settings
Account Settings
Download Certificate

Controller · Controller No 1 · Free mode · Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 Installieren Sie das Zertifikat auf dem „Konfigurations-PC, der für den Zugriff auf den Controller über das Netzwerk verwendet wird“.

① Doppelklicken Sie auf das heruntergeladene Zertifikat und wählen Sie „Install Certificate“ aus.



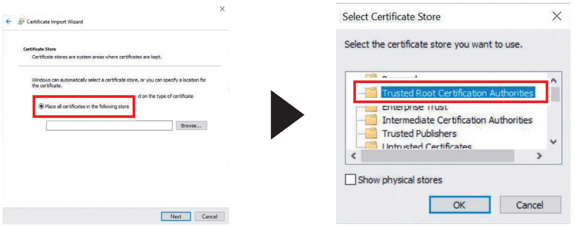
Downloads
File
Home
Share
View
Search Downloads
Quick access
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
Certificate
General
Details
Certification Path
Install Certificate...
OK

Name	Date modified	Type	Size
webCACert.cer	12/13/2022 2:58 PM	Security Certificate	1 KB

Certificate Information
This certificate is intended for the following purpose(s):
- All issuance policies
- All application policies

Issued to: tool-PC-CA
Issued by: tool-PC-CA
Valid from 1/1/1970 to 1/1/10000

② Wählen Sie „Place all certificates in the following store“ und dann „Trusted Root Certification Authorities“ aus.



Certificate Import Wizard
Browse...
Next
Cancel
Select Certificate Store
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
OK
Cancel

Certificate Store
Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for the certificate.
● Place all certificates in the following store

Select the certificate store you want to use.
☐ Show physical stores

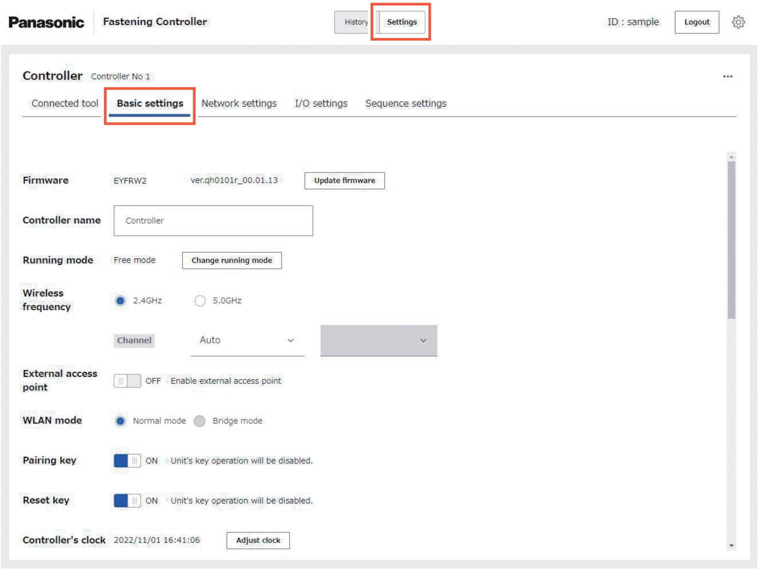
Verbindung über das Netzwerk

Geben Sie in der Adressleiste des Webbrowsers „https://XXX.XXX.XXX.XXX/controller“ ein, um den Controller über den Ethernetport (für das Netzwerk) zu verbinden.
* „XXX.XXX.XXX.XXX“ ist eine IP-Adresse.
* Die Standard-IP-Adresse ist „192.168.0.10“. Wenn Sie die Standardadresse geändert haben, geben Sie die geänderte Adresse ein. **Siehe S. 26**

KONFIGURATION DES CONTROLLERS

Grundeinstellungen

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Basic settings“ aus.
Sie können den Controller konfigurieren.

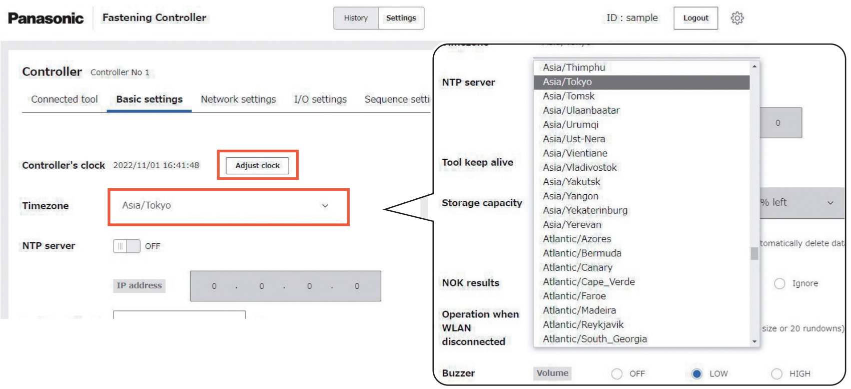

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Firmware: EYFRW2 ver.qh0101r_00.01.13
Controller name: Controller
Running mode: Free mode
Wireless frequency: ● 2.4GHz ○ 5.0GHz
Channel: Auto
External access point: OFF Enable external access point
WLAN mode: ● Normal mode ○ Bridge mode
Pairing key: ON Unit's key operation will be disabled.
Reset key: ON Unit's key operation will be disabled.
Controller's clock: 2022/11/01 16:41:06

Zeiteinstellung

Wählen Sie „Timezone“ aus und klicken Sie dann auf [Adjust clock].
Die Uhrzeit wird aktualisiert.

- Zum Zeitpunkt des Versands ist die Uhrzeit noch nicht eingestellt. Stellen Sie stets die Uhrzeit ein, wenn Sie den Controller erstmalig verwenden.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence setti
Adjust clock
NTP server
Tool keep alive
Storage capacity
% left
tomatically delete dat
NOK results
Ignore
Operation when WLAN disconnected
size or 20 rundowns)
Asia/Thimphu
Asia/Tokyo
Asia/Tomsk
Asia/Ulaanbaatar
Asia/Urumqi
Asia/Ust-Nera
Asia/Vientiane
Asia/Vladivostok
Asia/Yakutsk
Asia/Yangon
Asia/Yekaterinburg
Asia/Yerevan
Atlantic/Azores
Atlantic/Bermuda
Atlantic/Canary
Atlantic/Cape_Verde
Atlantic/Faroe
Atlantic/Madeira
Atlantic/Reykjavik
Atlantic/South_Georgia

Controller's clock: 2022/11/01 16:41:48
Timezone: Asia/Tokyo
NTP server: OFF
IP address: 0 . 0 . 0 . 0
Buzzer: Volume ○ OFF ● LOW ○ HIGH

* Wenn Sie einen NTP-Server verwenden, geben Sie die IP-Adresse ein.

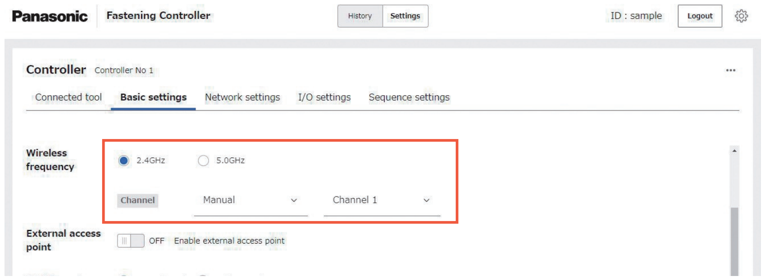
Funkfrequenz- und Kanaleinstellung

Sie können die zu verwendende Frequenz festlegen.
Wählen Sie „2.4GHz“ oder „5GHz“ und dann den zu verwendenden Kanal aus.

* Die auswählbaren Kanäle unterscheiden sich zwischen „2.4GHz“ und „5GHz“.

* Sie können „Auto Channel“ festlegen.
Der Controller wählt beim Einschalten automatisch die in der Umgebung verfügbaren Kanäle aus.
Diese Einstellung kann gegen Funkstörungen wirksam sein.

* Stellen Sie keine benachbarten Kanäle ein, wenn Sie mehrere Controller nahe beieinander installieren.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Wireless frequency: ● 2.4GHz ○ 5.0GHz
Channel: Manual / Channel 1
External access point: OFF Enable external access point

Einstellpunkte

Firmware

Die Firmwareversion des Controllers wird angezeigt.
Klicken Sie [Update firmware], um die Firmware zu aktualisieren.
Informationen zur Aktualisierung finden Sie unter „Aktualisierung der Firmware“.
Siehe S. 81

Controller name

Sie können den Namen des Controllers registrieren.
Verwenden Sie maximal 32 alphanumerische Zeichen.

[Standard]	Controller
[Einstellungsbereich]	Bis zu 32 alphanumerische Zeichen

* Für die Symbole können nur „-“ (der Bindestrich), „_“ (der Unterstrich) und „ “ (das Leerzeichen mit halber Breite) verwendet werden.

Running mode

Wählen Sie den Betriebsmodus des Controllers aus.

[Standard]	Free mode
[Einstellungsbereich]	Free mode / Repeat mode (Basic mode / Sequence mode) / External control mode

Wireless frequency

Wählen Sie den Frequenzkanal aus, der für die drahtlose Kommunikation verwendet wird.

[Standard]	2.4GHz
[Einstellungsbereich]	2.4GHz (Auto / Channel 1 bis 13) / 5GHz (Auto / Channel 36, 40, 44, 48)

External access point

Sie können die Kommunikation über einen externen Zugangspunkt aktivieren.
Siehe S. 63

[Standard]	OFF (deaktiviert)
[Einstellungsbereich]	OFF (deaktiviert)/ON (aktiviert)

* WLAN mode: Diese Einstellung ist für den Betrieb ohne einen externen Zugangspunkt.
Normal mode: Wenn die IP-Adressen der Werkzeuge nicht verwaltet werden (automatische Zuweisung)
Bridge mode: Wenn die IP-Adressen der Werkzeuge verwaltet (angegeben) werden

Pairing key

Sie können die Kopplungstaste aktivieren.

[Standard]	ON (aktiviert)
[Einstellungsbereich]	OFF (deaktiviert)/ON (aktiviert)

Reset key

Sie können die Zurücksetzentaste aktivieren.

[Standard]	ON (aktiviert)
[Einstellungsbereich]	OFF (deaktiviert)/ON (aktiviert)

Controller's clock

Stellen Sie die Uhr des Controllers.
Klicken Sie auf [Adjust clock], um die Uhrzeit zu aktualisieren.

Timezone

Sie können eine gewünschte Zeitzone einstellen, wenn Sie die Uhr des Controllers einstellen.

NTP server

Legen Sie einen NTP-Server fest, wenn Sie die automatische Zeiteinstellung verwenden.

Tool keep alive

Legen Sie das Zeitintervall fest, in dem der Controller die Verfügbarkeit der Werkzeuge im drahtlosen Kommunikationsmodus überprüft.
Werkzeuge, die nicht reagieren, werden als offline erkannt und die Verbindung wird getrennt.

[Standard]	30 s
[Einstellungsbereich]	10 s bis 3600 s

Storage capacity

Aktivieren oder deaktivieren Sie die Benachrichtigung bei geringer Speicherkapazität und legen Sie das Verhalten bei unzureichender Kapazität fest.

[Standard]	Benachrichtigung - OFF, Betrieb bei unzureichender Kapazität - Automatically delete data
[Einstellungsbereich]	Benachrichtigung - OFF/ON (verbleibende Kapazität 10/20/30/40/50%), Betrieb bei unzureichender Kapazität - Suspend operation / Automatically delete data

Die Standardeinstellung ist „Automatically delete data“.
Überlegen Sie sich gut, wie Sie mit den Daten umgehen möchten, bevor Sie bei Bedarf „Suspend operation“ auswählen.

NOK results

Wählen Sie aus, wie die Befestigungsfehlerergebnisse gehandhabt werden.

[Standard]	Store data only
[Einstellungsbereich]	Report to system / Store data only / Ignore

Operation when WLAN disconnected

Wählen Sie das Verhalten im Falle einer vorübergehenden Unterbrechung der drahtlosen Kommunikation aus.

[Standard]	Suspend tool
[Einstellungsbereich]	Suspend tool / Enable fastening (Until batch size or 20 rundowns)

Detaillierte Informationen finden Sie unter „VERHALTEN DES WERKZEUGS BEI UNTERBROCHENER KABELLOSER KOMMUNIKATION“. **Siehe S. 70**

Buzzer

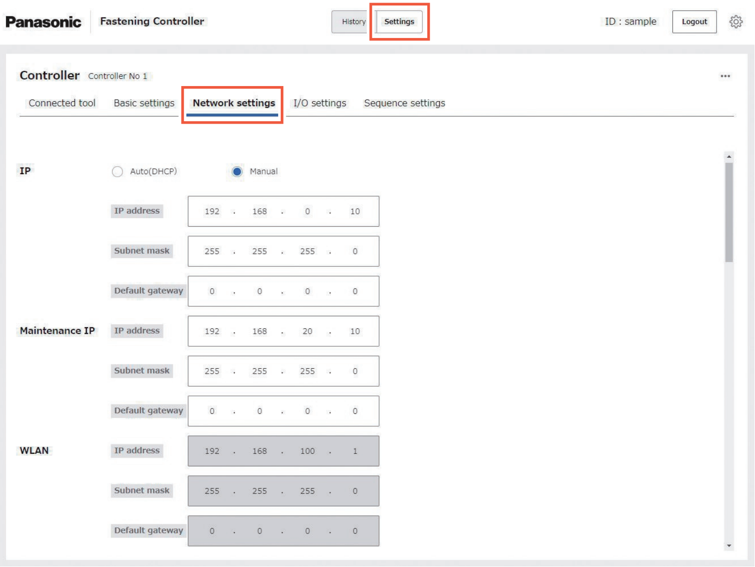
Wählen Sie die Lautstärke und Bedeutung des Summers aus.

[Standard]	Volume - LOW, Beep - Alle aktiviert
[Einstellungsbereich]	Volume - OFF/LOW/HIGH, Beep - Aktivieren oder deaktivieren Sie jeden Punkt

KONFIGURATION DES CONTROLLERS (Fortsetzung)

Netzwerkeinstellungen

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Network settings“ aus.
Sie können die Netzwerkeinstellungen des Controllers vornehmen.



IP ○ Auto(DHCP) ● Manual

IP	IP address	192 . 168 . 0 . 10
	Subnet mask	255 . 255 . 255 . 0
	Default gateway	0 . 0 . 0 . 0
Maintenance IP	IP address	192 . 168 . 20 . 10
	Subnet mask	255 . 255 . 255 . 0
	Default gateway	0 . 0 . 0 . 0
WLAN	IP address	192 . 168 . 100 . 1
	Subnet mask	255 . 255 . 255 . 0
	Default gateway	0 . 0 . 0 . 0

Einstellpunkte

IP

Legen Sie die IP-Adresse des Ethernetports (für das Netzwerk) fest.

[Standard]	Manual
[Einstellungsbereich]	Auto (DHCP) / Manual

* Für „Manual“

[Standard]	IP address - 192.168.0.10 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

Maintenance IP

Legen Sie die IP-Adresse des Ethernetports (für die Wartung) fest.

[Standard]	IP address - 192.168.20.10 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

WLAN

Legen Sie die IP-Adresse (auf der Seite des Controllers) für die drahtlose Kommunikation mit den Werkzeugen fest.

[Standard]	IP address - 192.168.100.1 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

Atlas Open Protocol

Legen Sie die Parameter für das Atlas-Open-Protokoll fest.
Detaillierte Informationen finden Sie unter „Verbindung über die Open-Protokoll-Kommunikation“. **Siehe S. 57**

Access point

Legen Sie den internen Zugangspunkt für die drahtlose Kommunikation mit den Werkzeugen fest.

[Standard]	SSID - Modellnummer des Controllers - MAC-Adresse Security - WPA2
[Einstellungsbereich]	SSID - Maximal 32 alphanumerische Zeichen Security - WPA2

External access point

Legen Sie den externen Zugangspunkt fest, der verwendet wird.

[Standard]	SSID - Leer Security - Leer Password - Leer
[Einstellungsbereich]	SSID - Maximal 32 alphanumerische Zeichen Security - Open/WPA2 Password - 8 bis 63 alphanumerische Zeichen

* Nur die Symbole „"“, „¥“, „,“ und „’ (einfaches Anführungszeichen)“ können verwendet werden.
* Die Option ist nur aktiviert, wenn „External access point“ in der Grundeinstellung auf „ON“ festgelegt ist.

- Verwenden Sie für die IP-Adressen für „IP“ und „Maintenance IP“ nicht das gleiche Subnetz.
  (Wenn Sie unter „Subnet mask“ einen Standardwert (255.255.255.0) einstellen, geben Sie in dem Bereich, der „192.168.0“ oder „192.168.20“ entspricht, andere Werte ein).

KOPPLUNG MIT EINEM WERKZEUG

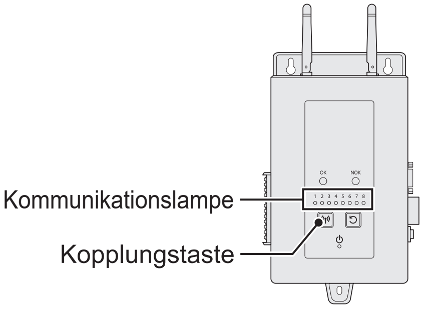
Starten des Kopplungsmodus auf dem Controller

Sie können den Controller durch „Verwendung der Taste am Gerät“ oder „Einstellung auf dem Einstellungsbildschirm“ in den Kopplungsmodus versetzen.
Starten Sie innerhalb von 2 Minuten des Kopplungsmodus den Kopplungsmodus eines Werkzeugs innerhalb der Reichweite, um die Kopplung automatisch herzustellen.
Wenn die Kopplung nicht innerhalb dieser Zeit hergestellt wird, wird der Kopplungsmodus beendet.

* Nachdem Sie versucht haben, die Kopplung zu starten, kann es einige Zeit dauern, bis der Controller in den Kopplungsmodus übergeht.

■ Verwendung der Taste am Gerät

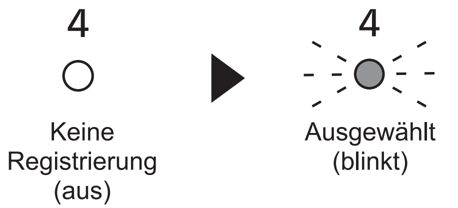
Verwenden Sie die Kopplungstaste auf dem Controller.
Wählen Sie die Kommunikationslampe der Nummer ohne Registrierung (Lampe aus) aus und halten Sie die Kopplungstaste gedrückt, um den Kopplungsmodus aufzurufen.
Einzelheiten dazu finden Sie im folgenden Verfahren.


Kommunikationslampe
Kopplungstaste

(Werkzeug Nr. 4 registrieren)

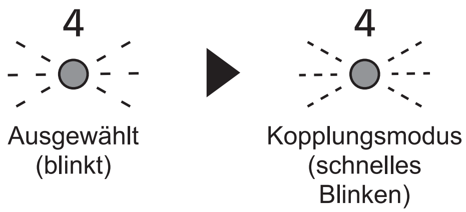
1 **Drücken Sie die Kopplungstaste auf dem Controller 4-mal, um die Werkzeugnummer 4 auszuwählen.**

Die Kommunikationslampe Nr. 4 blinkt.


4
Keine Registrierung (aus)
4
Ausgewählt (blinkt)

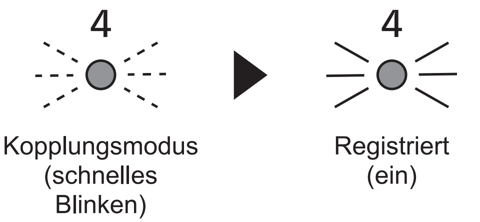
2 **Wenn die Nr. 4 ausgewählt ist, halten Sie die Kopplungstaste auf dem Controller gedrückt, um den Kopplungsmodus des Werkzeugs Nr. 4 aufzurufen.**

Im Kopplungsmodus beginnt die Kommunikationslampe Nr. 4, schnell zu blinken.


4
Ausgewählt (blinkt)
4
Kopplungsmodus (schnelles Blinken)

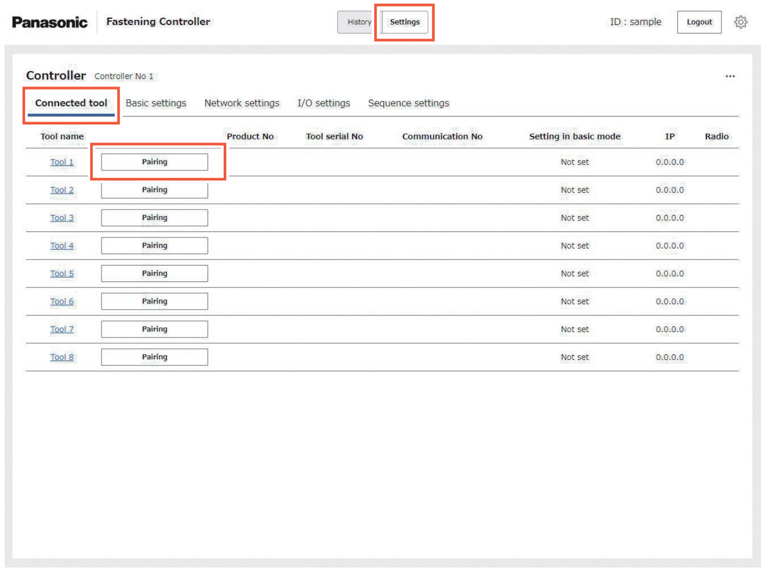
3 **Betätigen Sie das Werkzeug Nr. 4, um die Kopplung herzustellen.**

Die Kommunikationslampe Nr. 4 leuchtet dauerhaft.
Für die Bedienung des Werkzeugs siehe „Starten des Kopplungsmodus eines Werkzeugs“. **Siehe S. 30**


4
Kopplungsmodus (schnelles Blinken)
4
Registriert (ein)

■ Einstellung auf dem Einstellungsbildschirm

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.
Klicken Sie auf dem Bildschirm „Connected tool“ auf [Pairing] der gewünschten Werkzeugnummer.
Nachdem der Controller in den Kopplungsmodus eingetreten ist, führen Sie das Verfahren unter „Starten des Kopplungsmodus eines Werkzeugs“ aus. **Siehe S. 30**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Pairing				Not set	0.0.0.0	
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

<Referenz> Ersetzen durch ein Ersatzwerkzeug

Wenn Sie ein defektes gekoppeltes Werkzeug durch ein neues mit der gleichen Modellnummer ersetzen, heben Sie die Kopplung auf **Siehe S. 30** und führen Sie dann die Kopplung durch **Siehe S. 28** , damit die Befestigungsparameter und andere Einstellungen automatisch übertragen werden können.

* Wenn Sie ein Werkzeug mit einer anderen Produktnummer koppeln möchten, heben Sie die Kopplung auf, um die aktuellen Kopplungsinformationen zu löschen, bevor Sie die Kopplung mit diesem Werkzeug durchführen. **Siehe S. 34**

Anzeige nach dem Abschluss der Kopplung

Wenn nach dem Abschluss der Kopplung auf dem Einstellungsbildschirm keine Informationen über das gekoppelte Werkzeug angezeigt werden, aktualisieren Sie die Anzeige auf dem Einstellungsbildschirm.

* Im „Bridge mode“ oder wenn „External access point“ aktiviert ist, legen Sie die IP-Adresse des Geräts fest, bevor Sie mit der Kopplungsregistrierung starten.

KOPPLUNG MIT EINEM WERKZEUG (Fortsetzung)

Starten des Kopplungsmodus eines Werkzeugs

Versetzen Sie den Controller in den Kopplungsmodus, bevor Sie den Kopplungsmodus eines Werkzeugs starten.

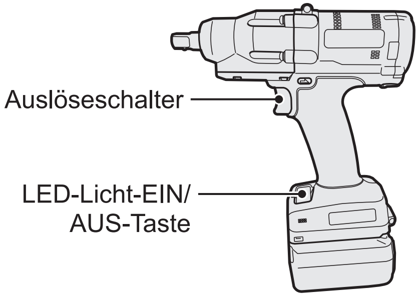
■ Vorgehensweise

1 **Setzen Sie den Akkupack ein. Halten Sie die LED-Licht-EIN/AUS-Taste gedrückt und ziehen Sie den Auslöseschalter.**

Das Werkzeug wechselt in den Kopplungsmodus.
Die drahtlose Kommunikation wird automatisch hergestellt und die Kopplungsregistrierung ist abgeschlossen.

* Einzelheiten finden Sie in der Bedienungsanleitung des Werkzeugs.

* Wenn die Kopplung fehlschlägt, heben Sie die Kopplung auf dem Controller auf und versuchen Sie es dann erneut.

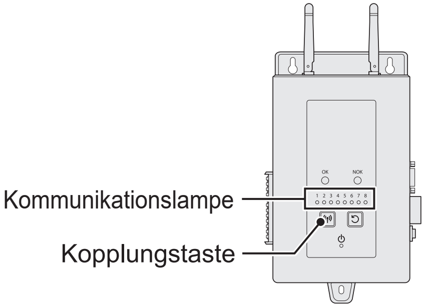

Auslöseschalter
LED-Licht-EIN/AUS-Taste

Aufheben der Kopplung

Sie können die Kopplungsregistrierung auf dem Controller durch die „Verwendung der Taste am Gerät“ oder „Einstellung auf dem Einstellungsbildschirm“ aufheben.

■ Verwendung der Taste am Gerät

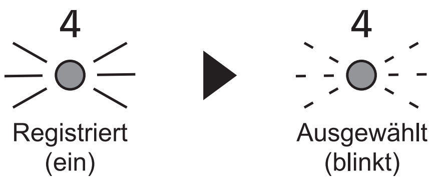
Verwenden Sie die Kopplungstaste auf dem Controller.
Wählen Sie die Kommunikationslampe der Werkzeugnummer aus, deren Registrierung Sie aufheben möchten (Lampe leuchtet), und halten Sie die Kopplungstaste gedrückt, um die Kopplungsregistrierung aufzuheben.
Einzelheiten dazu finden Sie im folgenden Verfahren.


OK
NOK
1 2 3 4 5 6 7 8
Kommunikationslampe
Kopplungstaste

(Kopplung des Werkzeugs Nr. 4 aufheben)

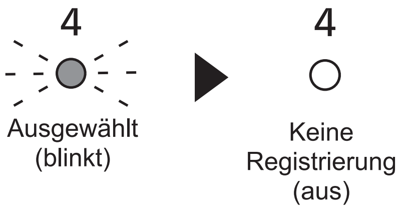
1 **Drücken Sie die Kopplungstaste auf dem Controller 4-mal, um die Werkzeugnummer 4 auszuwählen.**

Die Kommunikationslampe Nr. 4 blinkt.


4
Registriert (ein)
4
Ausgewählt (blinkt)

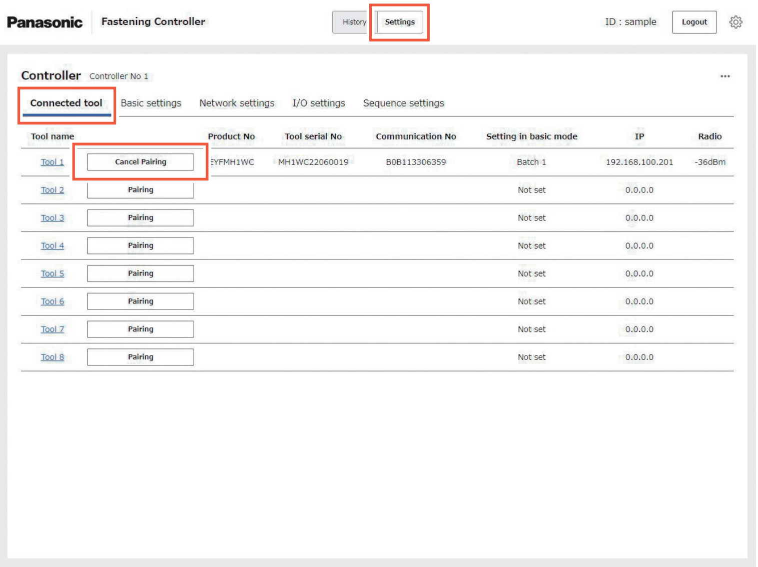
2 **Wenn die Nr. 4 ausgewählt ist, halten Sie die Kopplungstaste auf dem Controller gedrückt, um die Kopplungsregistrierung der Werkzeugnummer 4 aufzuheben.**

Wenn die Kopplung aufgehoben ist, hört die Kommunikationslampe Nr. 4 auf zu blinken und schaltet sich aus.


4
Ausgewählt (blinkt)
4
Keine Registrierung (aus)

■ Einstellung auf dem Einstellungsbildschirm

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.
Klicken Sie auf dem Bildschirm „Connected tool“ auf [Cancel Pairing] der gewünschten Werkzeugnummer.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Controller Controller No 1

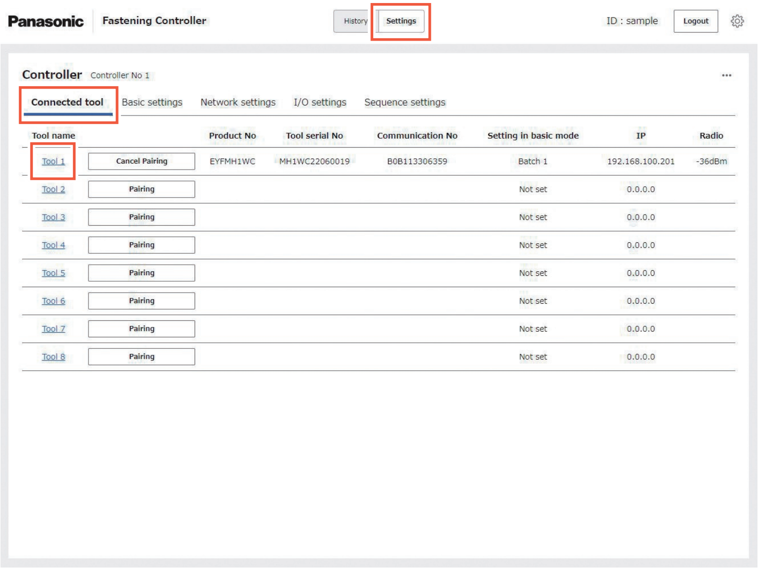
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

* Wenn der Controller nicht mit dem Werkzeug kommunizieren kann, weil das Werkzeug ausgeschaltet ist oder aus einem anderen Grund, aktivieren Sie [Force to unpair] im Bestätigungsdialogfeld für die Entkopplung.

KONFIGURATION EINES WERKZEUGS

Anzeige des Werkzeug-Bildschirms

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.
Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.
Der Bildschirm für die Werkzeugnummer wird angezeigt.

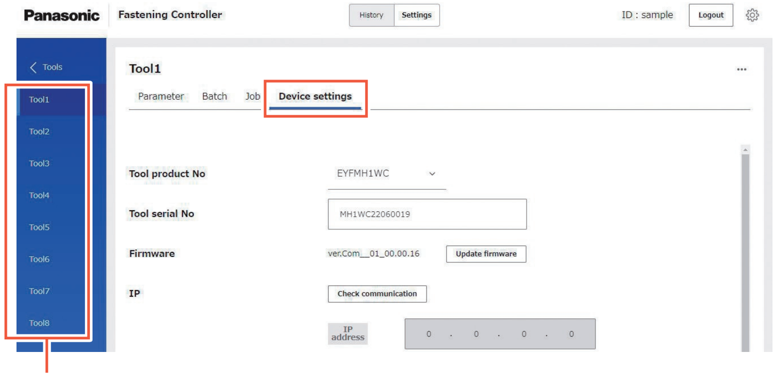

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Anzeige des Einstellungsbildschirms des Werkzeugs

Auf der Registerkarte „Device settings“ auf dem Bildschirm für die Gerätenummer können Sie Grundeinstellungen des Werkzeugs vornehmen und allgemeine Parameter eingeben.

* Um das Werkzeug zu wechseln, wählen Sie das gewünschte Werkzeug aus der Werkzeugliste aus.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Update firmware
Check communication
IP address

Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16
IP
IP address: 0 . 0 . 0 . 0

Werkzeugliste

Einstellungspunkte des Werkzeugs

Tool product No

Wählen Sie die Produktnummer des Werkzeugs aus.

[Standard]	Leer
[Einstellungsbereich]	Aus dem Pull-down-Menü auswählbar

* Wird automatisch ausgewählt, wenn Sie zuvor eine Kopplung hergestellt haben.
* Die Produktnummer des Werkzeugs kann nach der Kopplung nicht geändert werden. Heben Sie die Kopplung auf und ändern Sie sie dann.

Tool serial No

Sie können die Gerätekennung des Werkzeugs festlegen und anzeigen.

[Standard]	5-stellige Modell-ID + 8-stellige Seriennummer (2-stelliges Herstellungsjahr + 2-stelliger Monat + 4-stellige Produktionscharge)
[Einstellungsbereich]	13 bis 16 alphanumerische Zeichen

* Die Modellnummer wird möglicherweise nicht richtig erkannt, wenn die Informationen geändert werden. Ändern Sie sie nicht, es sei denn, dies ist in der Verwaltungsvorschrift vorgesehen.

Firmware

Die Firmwareversion des Kommunikationsteils des Werkzeugs wird angezeigt.
Klicken Sie [Update firmware], um die Firmware zu aktualisieren.
Informationen zur Aktualisierung finden Sie unter „Aktualisierung der Firmware“.

Siehe S. 81

IP

Legen Sie die IP-Adresse (auf der Seite des Werkzeugs) für die drahtlose Kommunikation mit den Werkzeugen fest.

[Standard]	IP address - 192.168.100.201 (Werkzeug 1) bis 208 (Werkzeug 8) Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

* Diese werden alle „0.0.0.0“ im Bridge mode oder wenn „External access point“ aktiviert ist.

Tool’s clock

Die Uhr des Werkzeugs wird angezeigt. Klicken Sie auf [Adjust to controller], um die Zeit einzustellen.

- Informationen zu den anderen Einstellungspunkten finden Sie in der Bedienungsanleitung des Werkzeugs.

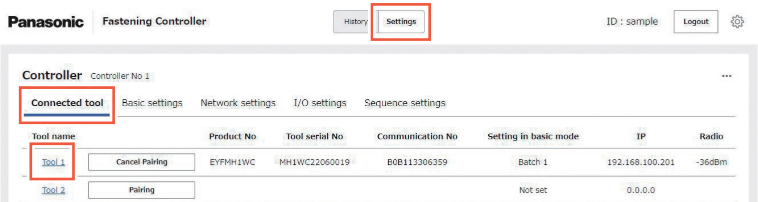
KONFIGURATION EINES WERKZEUGS (Fortsetzung)

Löschen der Registrierungsinformationen

Löschen Sie die Kopplungsinformationen, um die Verwendung eines Werkzeugs zu beenden oder ein Werkzeug mit einer anderen Produktnummer zu koppeln.
* Heben Sie die Kopplung im Voraus auf.

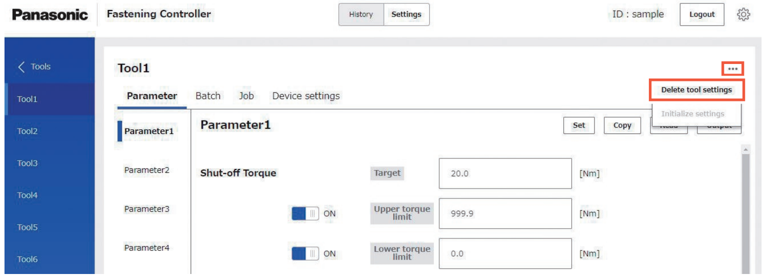
1 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.**
Der Bildschirm „Connected tool“ wird angezeigt.

2 **Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.**
Der Bildschirm für die Werkzeugnummer wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

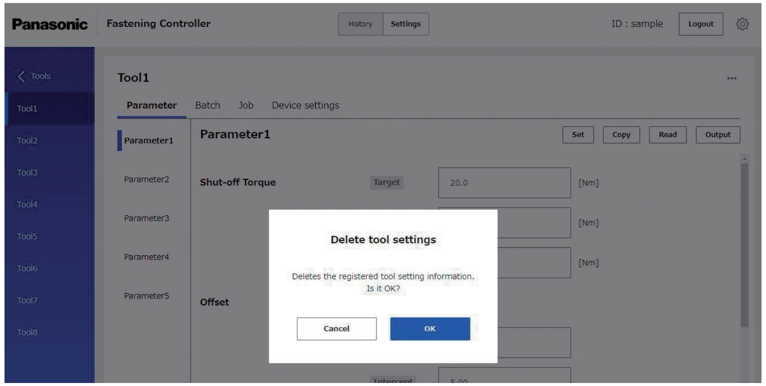
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Klicken Sie auf ··· (die Werkzeugoptionstaste) und dann auf [Delete tool settings].**
Der Bildschirm „Delete tool settings“ wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Set
Copy
Delete tool settings
Initialize settings

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]

4 **Klicken Sie auf dem Bildschirm „Delete tool settings“ auf [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Cancel
OK

Parameter1
Shut-off Torque
Target 20.0 [Nm]
Offset

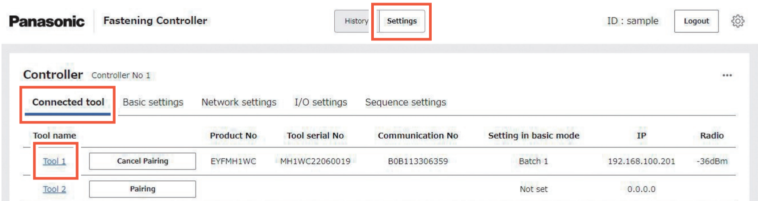
Delete tool settings
Deletes the registered tool setting information.
Is it OK?

Zurücksetzen auf die Werkseinstellungen

Sie können ein Werkzeug auf seine Werkseinstellungen zurücksetzen.
* Das Zurücksetzen hebt die Kopplung auf.

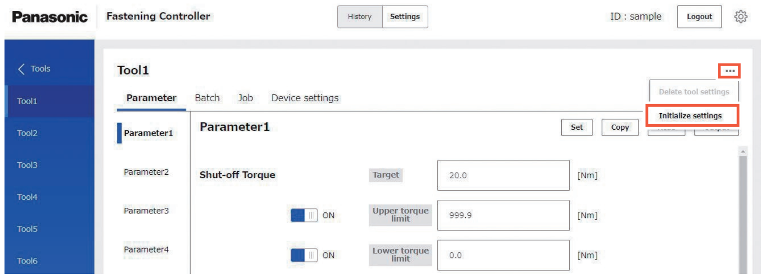
1 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.**
Der Bildschirm „Connected tool“ wird angezeigt.

2 **Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.**
Der Bildschirm für die Werkzeugnummer wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

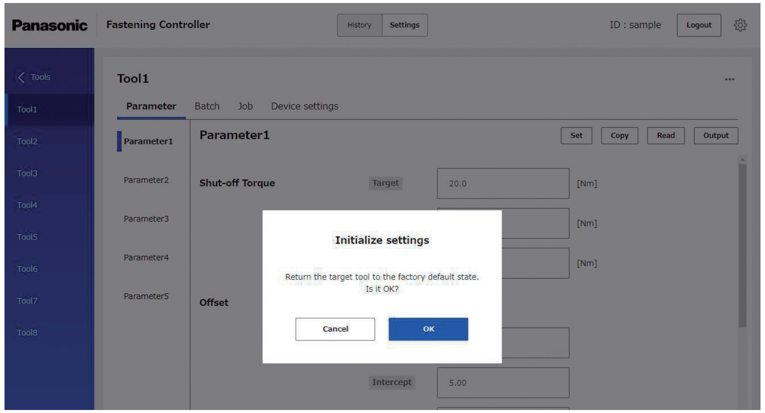
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Klicken Sie auf ··· (die Werkzeugoptionstaste) und dann auf [Initialize settings].**
Der Bildschirm „Initialize settings“ wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Set
Copy
Delete tool settings
Initialize settings

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]

4 **Klicken Sie auf dem Bildschirm „Initialize settings“ auf [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Cancel
OK

Parameter1
Shut-off Torque
Target 20.0 [Nm]
Offset
Intercept 5.00

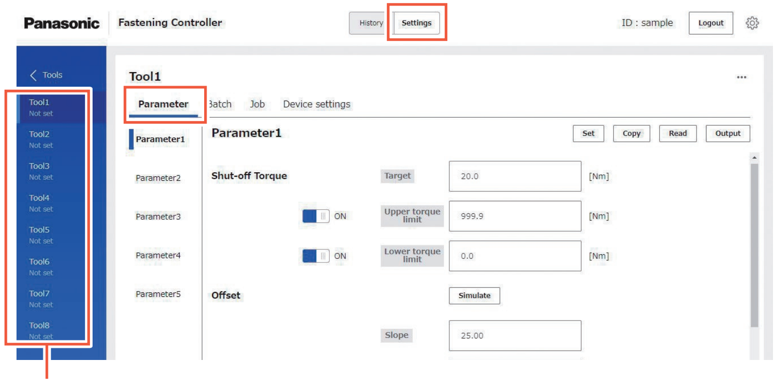
Initialize settings
Return the target tool to the factory default state.
Is it OK?

EINSTELLUNG DER BEFESTIGUNGSPARAMETER DES WERKZEUGS

Einstellung der Parameter

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.
Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.
Wählen Sie auf dem Bildschirm für die Werkzeugnummer die Registerkarte „Parameter“ aus, um die Einstellungen vorzunehmen.
Sie können für jedes Werkzeug fünf Parameter (Parameter 1 bis 5) festlegen.

* Um das Werkzeug zu wechseln, wählen Sie das gewünschte Werkzeug aus der Werkzeugliste aus.

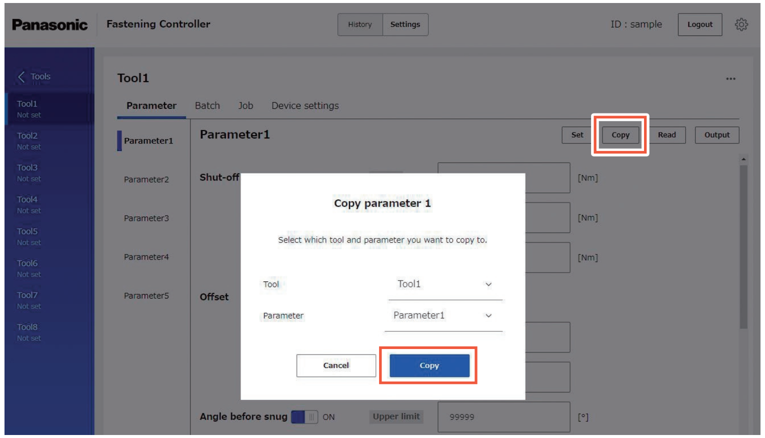

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]
Offset
Slope 25.00

Werkzeugliste

Kopieren der Parameter

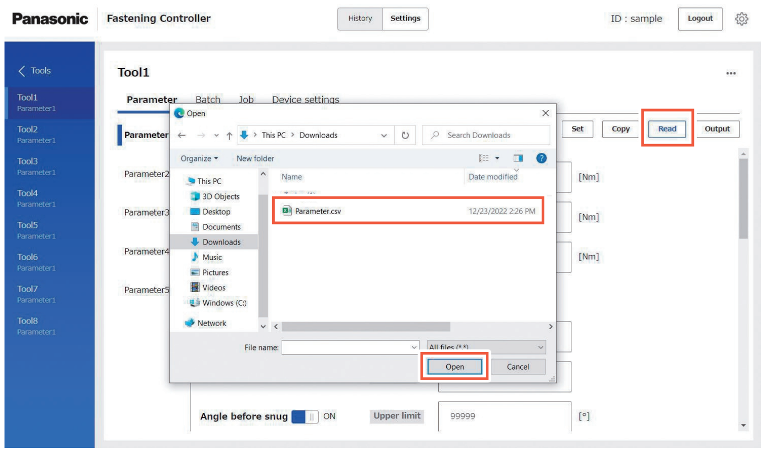
Sie können den festgelegten Parameter kopieren, um daraus einen neuen Parameter zu erstellen oder ihn für ein anderes Werkzeug zu verwenden.
Klicken Sie auf der Registerkarte „Parameter“ auf dem Bildschirm für die Werkzeugnummer auf [Copy], um den Bildschirm zum Kopieren des Parameters anzuzeigen. Wählen Sie auf dem Bildschirm das Ziel aus und klicken Sie auf [Copy].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off
Offset
Cancel
Copy

Copy parameter 1
Select which tool and parameter you want to copy to.
Tool: Tool1
Parameter: Parameter1
Angle before snug ON Upper limit 99999 [°]

Laden der Parameter

Sie können einen Parameter registrieren, indem Sie eine auf dem Konfigurations-PC gespeicherte Parameterdatei in den Controller laden.
Sie können auch eine mit dem „Tool Manager“ erstellte Parameterdatei laden.
Klicken Sie auf der Registerkarte „Parameter“ auf dem Bildschirm für die Werkzeugnummer auf [Read] und öffnen Sie die Parameterdatei.

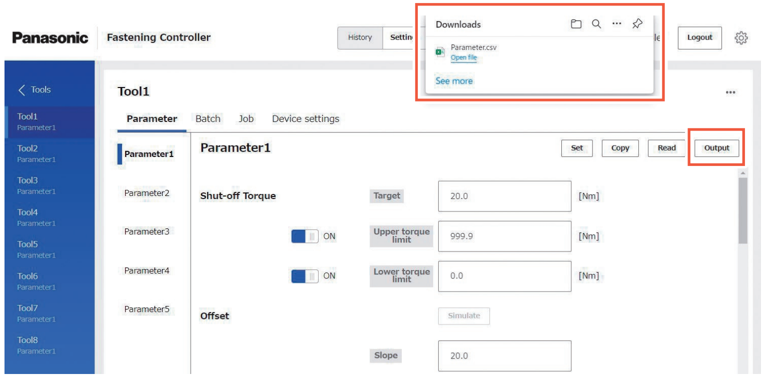

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Parameter1
Tool2 Parameter1
Tool3 Parameter1
Tool4 Parameter1
Tool5 Parameter1
Tool6 Parameter1
Tool7 Parameter1
Tool8 Parameter1
Tool1
Parameter
Batch
Job
Device settings
Set
Copy
Read
Output
Open
This PC › Downloads
Search Downloads
Organize
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
Name
Date modified
Parameter.csv
12/23/2022 2:26 PM
File name:
All files (*.*)
Open
Cancel

Angle before snug ON Upper limit 99999 [°]

Exportieren der Parameter

Sie können die erstellten Parameter zum Konfigurations-PC exportieren.
Sie können die exportierte Datei als Sicherungskopie verwenden, um sie auf einen anderen Controller zu kopieren oder auf einen anderen Konfigurations-PC zu verschieben.
Klicken Sie auf der Registerkarte „Parameter“ auf dem Bildschirm für die Werkzeugnummer auf [Output] und speichern Sie die Parameterdatei.

Bearbeiten Sie die exportierte Parameterdatei nicht.
Andernfalls wird sie möglicherweise nicht richtig eingelesen.

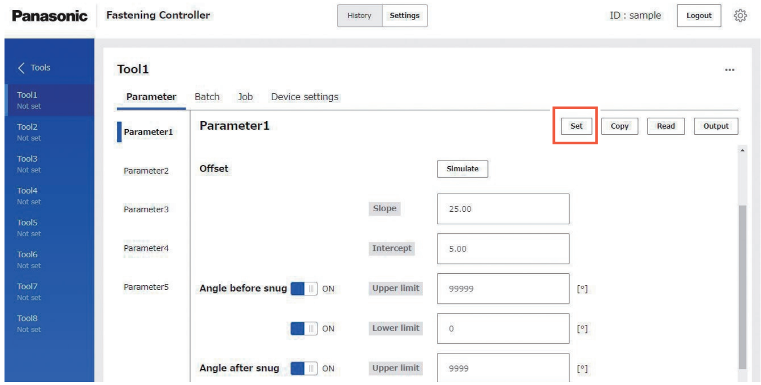

Panasonic
Fastening Controller
History
Logout
Downloads
Parameter.csv
Open file
See more
Tools
Tool1 Parameter1
Tool2 Parameter1
Tool3 Parameter1
Tool4 Parameter1
Tool5 Parameter1
Tool6 Parameter1
Tool7 Parameter1
Tool8 Parameter1
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]
Offset
Slope 20.0

Registrierung von Parametern

Registrieren Sie einen Parameter, um ihn zur Steuerung eines Werkzeugs im „Free mode“ des Betriebsmodus des Controllers zu verwenden.
* Er wird nicht im „Repeat mode“ und „External control mode“ verwendet.
Informationen zum „Free mode“, „Repeat mode“ und „External control mode“ finden Sie unter „Einstellung des Betriebsmodus“. **Siehe S. P45**

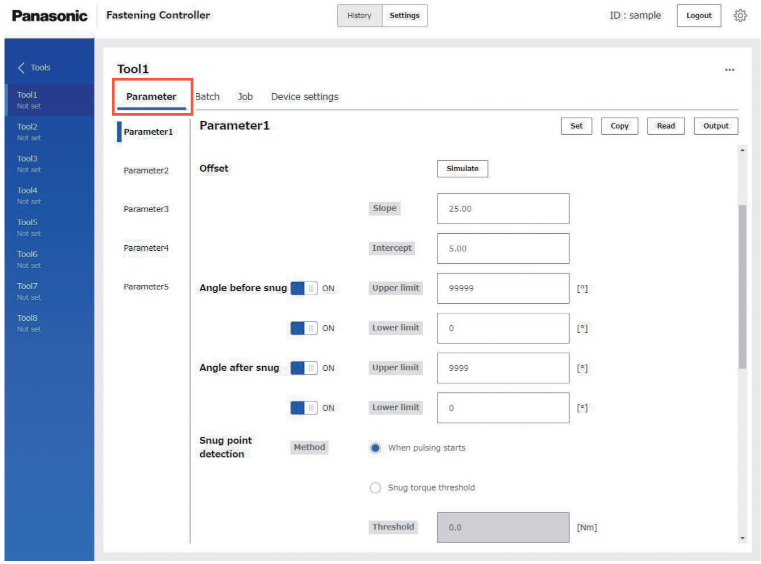
Klicken Sie auf der Registerkarte „Parameter“ auf dem Bildschirm für die Werkzeugnummer auf [Set].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Simulate

Offset
Slope: 25.00
Intercept: 5.00
Angle before snug: ON; Upper limit: 99999 [°]
ON; Lower limit: 0 [°]
Angle after snug: ON; Upper limit: 9999 [°]

Parameterpunkte

Legen Sie die Befestigungsparameterpunkte fest.
Einzelheiten finden Sie in der Bedienungsanleitung des Werkzeugs.

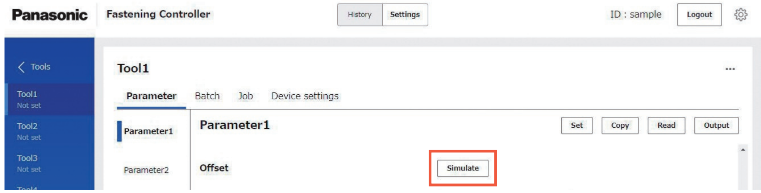

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Simulate

Offset
Slope: 25.00
Intercept: 5.00
Angle before snug: ON; Upper limit: 99999 [°]
ON; Lower limit: 0 [°]
Angle after snug: ON; Upper limit: 9999 [°]
ON; Lower limit: 0 [°]
Snug point detection: Method: ● When pulsing starts ○ Snug torque threshold
Threshold: 0.0 [Nm]

Einstellung eines Versatzes (Parameter, Referenz ①)

Legen Sie einen Versatz fest, indem Sie den Drehmomentausgangswert mit dem tatsächlich gemessenen Wert vergleichen.

1 **Klicken Sie auf der Registerkarte „Parameter“ auf dem Bildschirm für die Werkzeugnummer in „Versatz“ auf [Simulate].**
Die „Offset“-Seite wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Set
Copy
Read
Output
Offset
Simulate

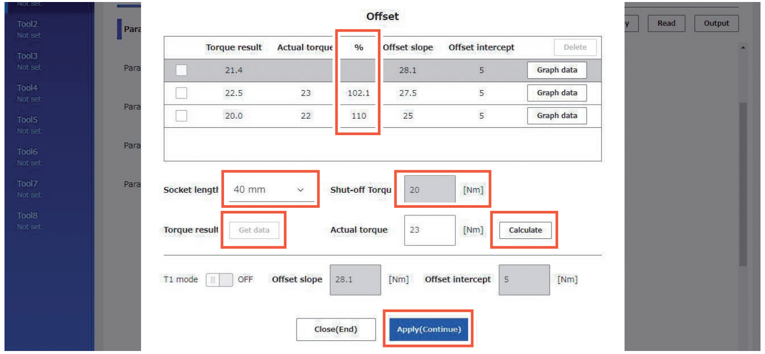
2 **Geben Sie den gewünschten Wert ein und klicken Sie auf [Apply].**
Geben Sie „Socket length“ und „Shut-off Torque“ ein.
Klicken Sie auf [Apply], um die eingegebenen Werte an das Werkzeug zu senden. Das Werkzeug wechselt in den Versatzmodus (als T2 dargestellt).

3 **Führen Sie die eigentliche Arbeit mit dem Werkzeug aus und klicken Sie dann auf [Get data].**
Ein Befestigungsverlaufsprotokoll wird zur Verlaufsliste auf der Seite „Offset“ hinzugefügt.
* Obwohl das Werkzeug nach dem Anklicken von [Get data] zu den Befestigungsarbeiten bereit ist („C-Modus“), beginnen Sie nicht mit den normalen Befestigungsarbeiten, bevor die Versatzeinstellung abgeschlossen ist.

4 **Wenn das erhaltene Befestigungsverlaufsprotokoll ausgewählt ist, geben Sie einen tatsächlich gemessenen Drehmomentwert (Nachbefestigung) ein und klicken Sie auf [Calculate].**
Der Versatz zur Anpassung des Ausgangsdrehmoments an das tatsächlich gemessene Drehmoment des Werkzeugs wird automatisch berechnet.

5 **Vergewissern Sie sich, dass der Versatz aktualisiert wurde, und klicken Sie auf [Apply].**
Der angepasste Wert wird an das Werkzeug gesendet.

6 **Wiederholen Sie die Schritte 3 bis 5, bis die Differenz ausreichend klein ist.**
* Halten Sie die Werte in der Spalte „%“ in einem Bereich von 95 % bis 105 %.

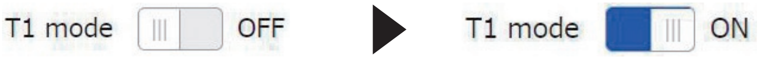

Offset
Delete
Graph data
Read
Output
Get data
Calculate
Close(End)
Apply(Continue)

	Torque result	Actual torque	%	Offset slope	Offset intercept
☐	21.4			28.1	5
☐	22.5	23	102.1	27.5	5
☐	20.0	22	110	25	5

Socket length: 40 mm
Shut-off Torque: 20 [Nm]
Actual torque: 23 [Nm]
T1 mode: OFF
Offset slope: 28.1 [Nm]
Offset intercept: 5 [Nm]

[Über den T1 mode]

Durch Aktivierung von [T1 mode] im Versatzeinstellungsbildschirm wird der Controller in den Mindestleistungsmodus versetzt.
(Durch Deaktivierung des [T1 mode] kehrt der Controller in den „Offset Mode“ zurück.)


T1 mode
OFF
T1 mode
ON

T1 mode
[Beschreibung] Sie können überprüfen, ob die Drehmomentsteuerung erfolgreich funktioniert, wenn das Zieldrehmoment in der Nähe des unteren Grenzwertes des Drehmomentsteuerungsbereiches des Controllers liegt. In diesem Modus wird der Controller bei der Mindestanzahl von Zählungen pro Minute (Mindestleistung) ausgeschaltet. Zu diesem Zeitpunkt wird das Arbeitsverlaufsprotokoll nicht gespeichert. Verwenden Sie nach der Arbeit in diesem Modus ein Drehmomentmessgerät oder einen Drehmomentschlüssel, um sicherzustellen, dass das Ausgangsdrehmoment des Controllers das Zieldrehmoment nicht überschritten hat. Der Controller kann für einige Arbeiten nicht verwendet werden, wenn sein Ausgangsdrehmoment in diesem Modus das Zielmoment überschreitet.

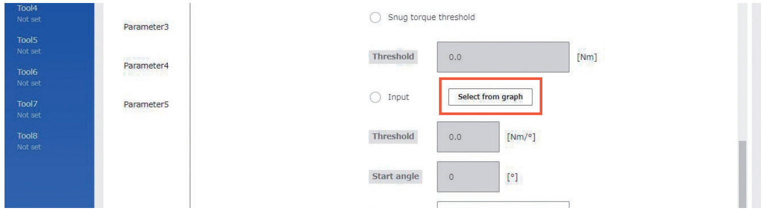
* Während der Einstellung eines Versatzes wird die Befestigung mit anderen Werkzeugen ausgesetzt.

■ Einstellung eines Anzugspunktes (Parameter, Referenz ②)

Sie können einen Anzugspunkt auf der Grundlage der Wellenform festlegen.

1 Klicken Sie auf der Registerkarte „Parameter“ des Bildschirms für die Werkzeugnummer unter „Snug point detection“ auf [Select from graph].

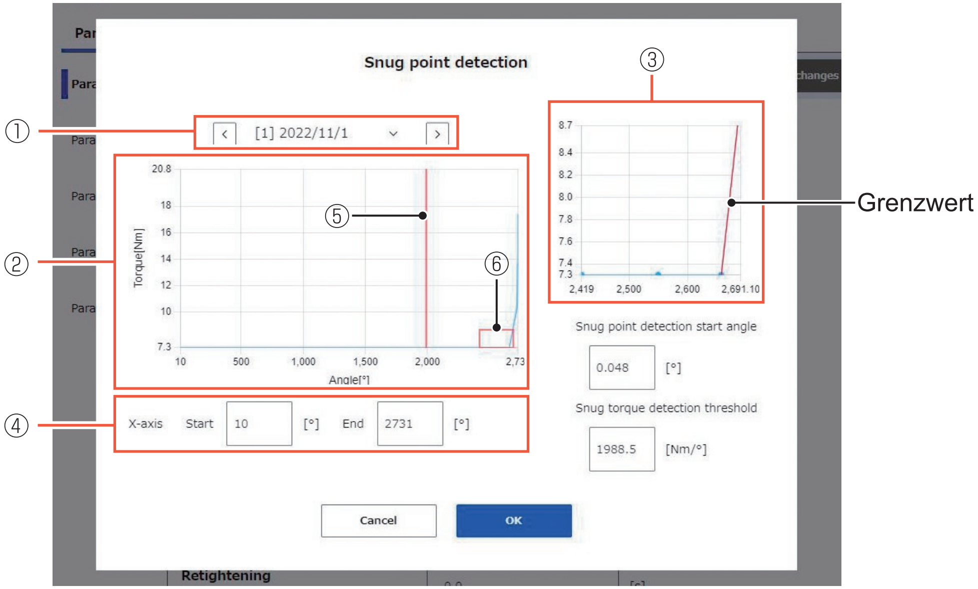
- Der Bildschirm „Snug point detection“ wird angezeigt, der die aktuelle Wellenform des Werkzeugs anzeigt.
- Die Befestigungsverlaufsdaten sind als Referenz erforderlich. Nehmen Sie diese Einstellung nach mindestens einem Befestigungsvorgang vor.
- Sie können die zu verwendende Wellenform mit den Pfeilen (①) umschalten.


Tool4
Not set
Tool5
Not set
Tool6
Not set
Tool7
Not set
Tool8
Not set
Parameter3
Parameter4
Parameter5
Select from graph

○ Snug torque threshold
Threshold 0.0 [Nm]
○ Input
Threshold 0.0 [Nm/°]
Start angle 0 [°]

2 Legen Sie einen Grenzwert in der Grafik fest.

- Das Hauptfenster (②) zeigt die gesamte Wellenform an und das Unterfenster (③) vergrößert einen bestimmten Bereich der gesamten Wellenform.
- Sie können den Bereich der im Hauptfenster angezeigten Wellenform ändern, indem Sie den Start- und Endwinkel unter „X-axis“ (④) unterhalb der Grafik eingeben.
- Sie können den Startwinkel der Anzugspunkterkennung (⑤) festlegen, indem Sie den vertikalen Balken verschieben.
- Stellen Sie die Position des Auswahlrahmens (⑥) im Hauptfenster ein, um den Anzeigebereich des Unterfensters zu ändern.
- Wählen Sie im Unterfenster (③) den gewünschten Grenzwert aus.


Par
Para
Para
Para
Para
Para
changes
Snug point detection
①
②
③
④
⑤
⑥
[1] 2022/11/1
20.8
18
16
14
12
10
7.3
Torque[Nm]
10
500
1,000
1,500
2,000
2,73
Angle[°]
8.7
8.4
8.2
8.0
7.8
7.6
7.4
7.3
2,419
2,500
2,600
2,691.10
Grenzwert
Cancel
OK
Retightening

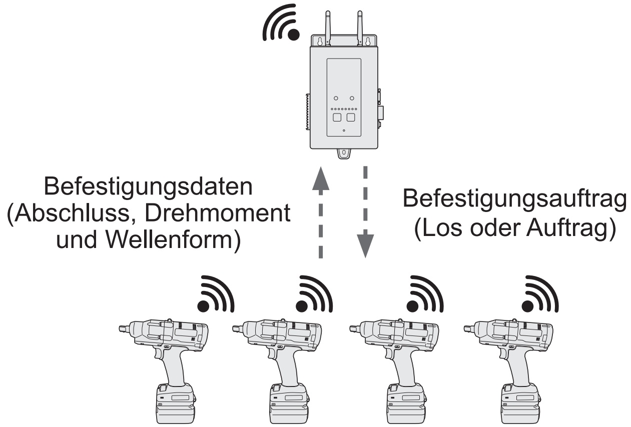
X-axis Start 10 [°] End 2731 [°]
Snug point detection start angle 0.048 [°]
Snug torque detection threshold 1988.5 [Nm/°]

EINSTELLUNG DES BEFESTIGUNGSSTEUERUNGSMODUS

Steuerung der Befestigung durch die Werkzeuge

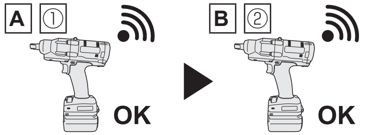
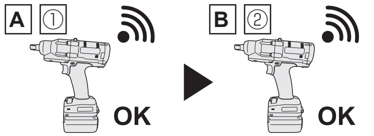
Der Controller kann bis zu 8 angeschlossene Befestigungswerkzeuge steuern. Er empfängt die Befestigungsdaten jedes Befestigungsauftrags und zählt die befestigte Menge zusammen.

Maximale Anzahl angeschlossener Geräte: 8


Befestigungsdaten (Abschluss, Drehmoment und Wellenform)
Befestigungsauftrag (Los oder Auftrag)

Typische Befestigungssteuerungskombinationen

Sie können verschiedene Kombinationen von Befestigungssteuerungseinstellungen erstellen. Nachfolgend sind typische Kombinationen aufgeführt.

<table>
<tr><th rowspan="2">Modus</th><th rowspan="2">[Free mode]</th><th colspan="2">[Repeat mode]</th></tr>
<tr><th>[Basic mode]</th><th>[Sequence mode]</th></tr>
<tr><td>**Zulässigkeits-kriterium**</td><td>–
(Die Menge ist nicht festgelegt)</td><td>Die Befestigung der Zielmenge ist abgeschlossen</td><td>Die Werkzeuge schließen die Befestigung der jeweiligen Zielmengen des festgelegten Auftrags ab</td></tr>
<tr><td>**[Batch]**
„Einzeln festgelegter Wert“ (Befestigung im gleichen Zustand)
*** Einzelner Werkstücktyp**</td>
<td> <table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>10 Nm</td><td>∞</td></tr></table>Parameter</td>
<td> <table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>Batch</td>
<td> <table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>10 Nm</td><td>10</td></tr></table><table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>20 Nm</td><td>5</td></tr></table>Batch und Sequence</td></tr>
<tr><td>**[Job]**
Mehrere Sollwerte (Befestigung unter verschiedenen Bedingungen)
*** Mehrere Arten von Werkstücken**</td>
<td></td>
<td> <table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>Job</td>
<td> <table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table><table><tr><th>Sollwert</th><th>Zielmenge</th></tr><tr><td>20 Nm</td><td>5</td></tr><tr><td>30 Nm</td><td>10</td></tr></table>Job und Sequence</td></tr>
<tr><td>**Bemerkung**</td><td>–</td><td>* Ein Auftrag kann bis zu 10 Schritte enthalten.</td><td>* Eine Sequenz kann bis zu 10 Schritte enthalten.</td></tr>
</table>

Anzahl der Kombinationen, die registriert werden können

Nachfolgend finden Sie die Anzahl der Kombinationen, die im Controller registriert werden können.

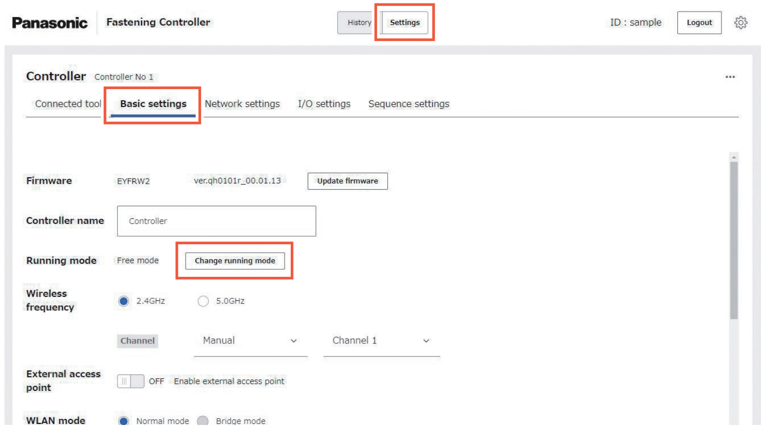
Modus des Controllers		Einstellung des Werkzeugs	Anzahl der Kombinationen, die registriert werden können
Free mode		**Parameter**	○ 5 Kombinationen pro Werkzeug
Repeat mode	**Basic mode (Unabhängige Steuerung)**	**Batch**	○ 5 Kombinationen pro Werkzeug
		Job	○ 5 Kombinationen pro Werkzeug
	Sequence mode (Sequenzsteuerung)	**Batch/Job**	○ 5 Kombinationen
External control mode		—	○

Einstellung des Betriebsmodus

Legen Sie den Betriebsmodus des Controllers wie folgt fest.

1 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Basic settings“ aus.**

2 **Klicken Sie in der Registerkarte „Basic settings“ auf [Change running mode].**
Der Bildschirm „Change running mode“ wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Controller Controller No 1

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name Controller

Running mode Free mode

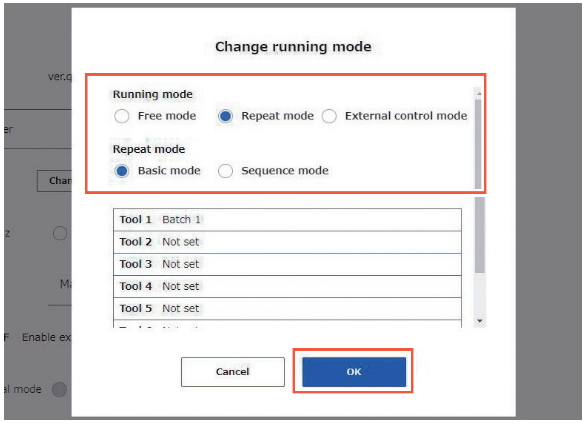
Wireless frequency ● 2.4GHz ○ 5.0GHz

Channel Manual Channel 1

External access point OFF Enable external access point

WLAN mode ● Normal mode ● Bridge mode

3 **Wählen Sie „Running mode“ aus und klicken Sie auf [OK].**
Der Betriebsmodus wird festgelegt.
Wählen Sie aus den Optionen „Free mode“, „Repeat mode“ und „External control mode“ einen Betriebsmodus aus.
Wählen Sie für „Repeat mode“ den „Basic mode“ oder „Sequence mode“ aus.
Siehe S. 46 bis 49


Change running mode
Cancel
OK

Running mode
○ Free mode ● Repeat mode ○ External control mode

Repeat mode
● Basic mode ○ Sequence mode

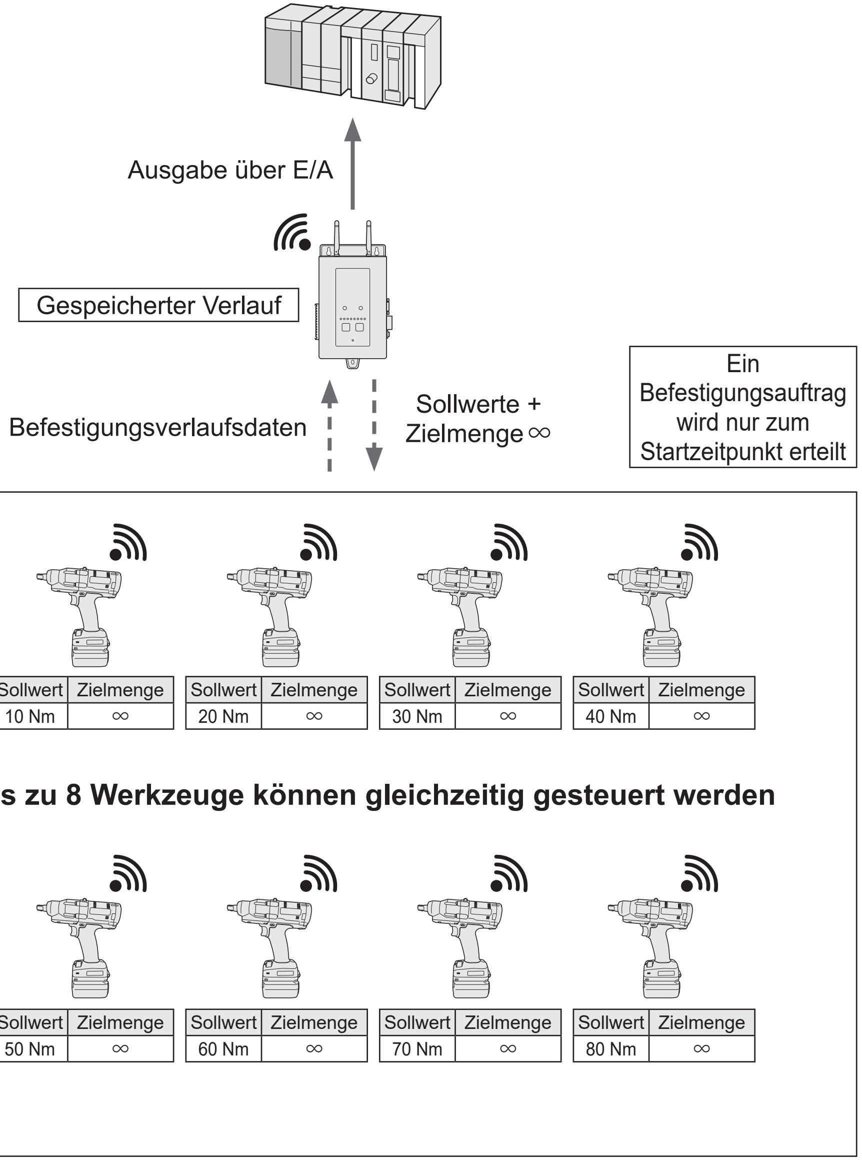
Tool 1	Batch 1
Tool 2	Not set
Tool 3	Not set
Tool 4	Not set
Tool 5	Not set

* Registrieren Sie „Parameter“, bevor Sie die Einstellung von „Free mode“ vornehmen.
* Registrieren Sie „Batch/Job“, bevor Sie die Einstellung von „Repeat mode“ vornehmen.

EINSTELLUNG DES BEFESTIGUNGSSTEUERUNGSMODUS (Fortsetzung)

■ Free mode

Dieser Modus ermöglicht eine bedingungslose Befestigung ohne Angabe der zu befestigenden Menge.
Die Werkzeuge verwenden für die Befestigung die vorregistrierten Parameter.
Bis zu 8 Werkzeuge können unabhängig voneinander betrieben werden.
Die E/A-Ausgangseinstellungen sind aktiviert.
* Verwenden Sie diesen Modus, wenn die zu befestigende Menge von einem externen Gerät gezählt wird.


Ausgabe über E/A
Gespeicherter Verlauf
Befestigungsverlaufsdaten
Sollwerte + Zielmenge ∞
Ein Befestigungsauftrag wird nur zum Startzeitpunkt erteilt

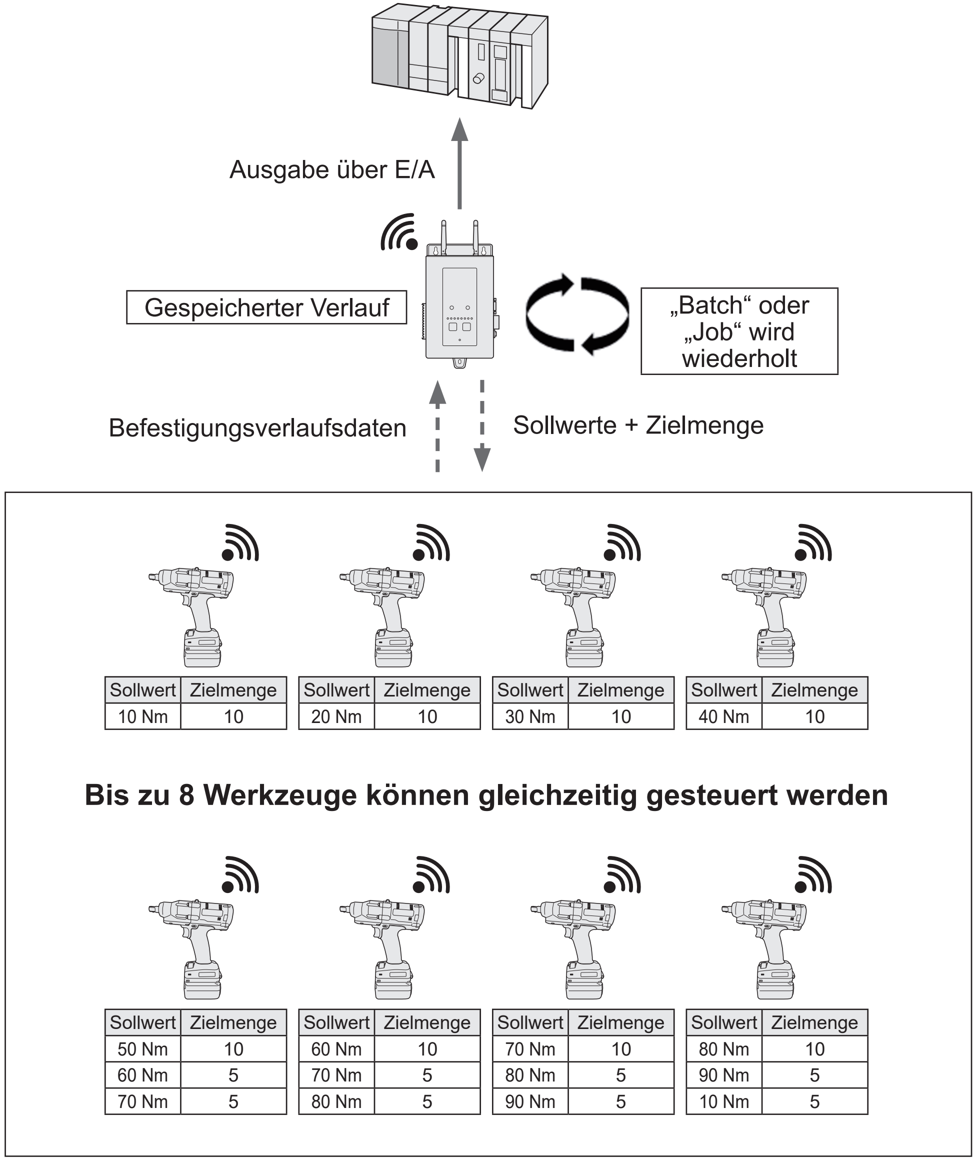
Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge
10 Nm	∞	20 Nm	∞	30 Nm	∞	40 Nm	∞

Bis zu 8 Werkzeuge können gleichzeitig gesteuert werden

Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge
50 Nm	∞	60 Nm	∞	70 Nm	∞	80 Nm	∞

■ Repeat mode (Basic mode)

Dieser Modus wiederholt ein „Batch“ oder einen „Job“.
Die Werkzeuge verwenden die vorregistrierten Einstellungen von „Batch“ oder „Job“ für die Befestigung.
Bis zu 8 Werkzeuge können unabhängig voneinander betrieben werden.
Die E/A-Ausgangseinstellungen sind aktiviert.


Ausgabe über E/A
Gespeicherter Verlauf
„Batch“ oder „Job“ wird wiederholt
Befestigungsverlaufsdaten
Sollwerte + Zielmenge

Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge
10 Nm	10	20 Nm	10	30 Nm	10	40 Nm	10

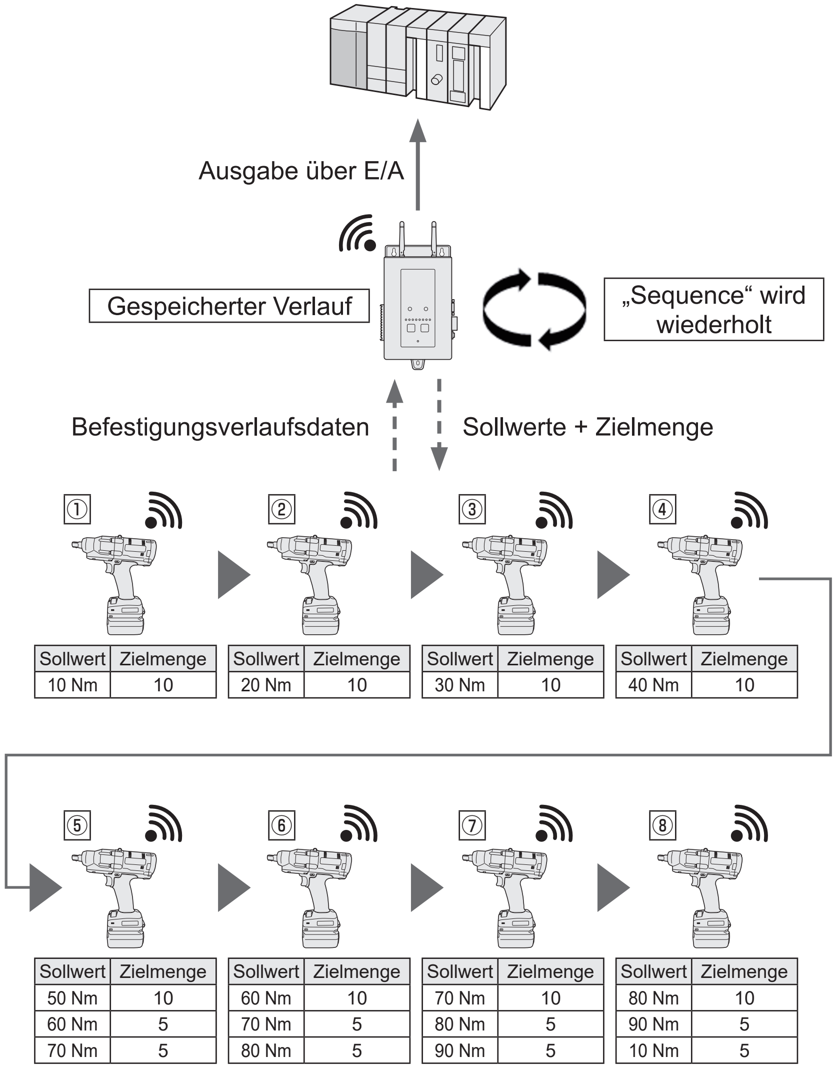
Bis zu 8 Werkzeuge können gleichzeitig gesteuert werden

Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge	Sollwert	Zielmenge
50 Nm	10	60 Nm	10	70 Nm	10	80 Nm	10
60 Nm	5	70 Nm	5	80 Nm	5	90 Nm	5
70 Nm	5	80 Nm	5	90 Nm	5	10 Nm	5

EINSTELLUNG DES BEFESTIGUNGSSTEUERUNGSMODUS (Fortsetzung)

■Repeat mode (Sequence mode)

In diesem Modus wird „Sequence“ wiederholt, wobei die verfügbaren Werkzeuge der Reihe nach gesteuert werden.
Die Werkzeuge verwenden die vorregistrierten „Sequence“-Einstellungen für die fortlaufende Befestigung.
Bis zu 10 Schritte können festgelegt werden. Eine Sequenz unterstützt bis zu 8 Werkzeuge, erlaubt aber immer nur den Betrieb eines Werkzeugs.
Die E/A-Ausgangseinstellungen sind aktiviert.


Ausgabe über E/A
Gespeicherter Verlauf
„Sequence“ wird wiederholt
Befestigungsverlaufsdaten
Sollwerte + Zielmenge
①
②
③
④
⑤
⑥
⑦
⑧

①

Sollwert	Zielmenge
10 Nm	10

②

Sollwert	Zielmenge
20 Nm	10

③

Sollwert	Zielmenge
30 Nm	10

④

Sollwert	Zielmenge
40 Nm	10

⑤

Sollwert	Zielmenge
50 Nm	10
60 Nm	5
70 Nm	5

⑥

Sollwert	Zielmenge
60 Nm	10
70 Nm	5
80 Nm	5

⑦

Sollwert	Zielmenge
70 Nm	10
80 Nm	5
90 Nm	5

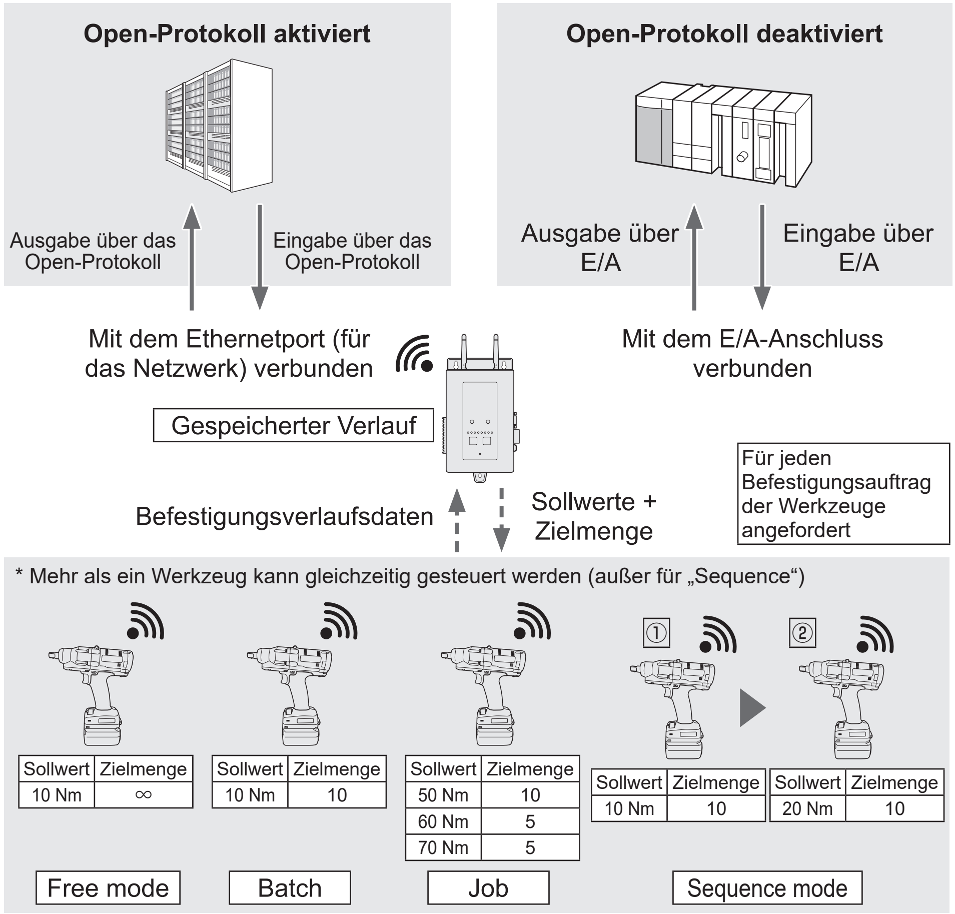
⑧

Sollwert	Zielmenge
80 Nm	10
90 Nm	5
10 Nm	5

■External control mode

Dieser Modus ermöglicht die Befestigungssteuerung auf Anweisung eines externen Geräts (Hostsystems).
Die folgenden 2 Steuerungsarten werden unterstützt.

- **Steuerung über das Open-Protokoll (mit aktiviertem Open-Protokoll)**
  Die Befestigung wird über das Open-Protokoll von einem Hostsystem gesteuert.
  Bis zu 8 Werkzeuge können unabhängig voneinander gesteuert werden.
  * Auftrags- und Sequenzsteuerungen werden nicht unterstützt.
- **Steuerung über E/A (mit deaktiviertem Open-Protokoll)**
  Die Befestigung wird durch die Eingänge über den E/A-Anschluss von einem externen Gerät gesteuert.
  Bis zu 8 Werkzeuge können unabhängig voneinander oder der Reihe nach gesteuert werden.


Open-Protokoll aktiviert
Open-Protokoll deaktiviert
Ausgabe über das Open-Protokoll
Eingabe über das Open-Protokoll
Ausgabe über E/A
Eingabe über E/A
Mit dem Ethernetport (für das Netzwerk) verbunden
Mit dem E/A-Anschluss verbunden
Gespeicherter Verlauf
Befestigungsverlaufsdaten
Sollwerte + Zielmenge
Für jeden Befestigungsauftrag der Werkzeuge angefordert
* Mehr als ein Werkzeug kann gleichzeitig gesteuert werden (außer für „Sequence“)
①
②
Free mode
Batch
Job
Sequence mode

Free mode

Sollwert	Zielmenge
10 Nm	∞

Batch

Sollwert	Zielmenge
10 Nm	10

Job

Sollwert	Zielmenge
50 Nm	10
60 Nm	5
70 Nm	5

Sequence mode ①

Sollwert	Zielmenge
10 Nm	10

Sequence mode ②

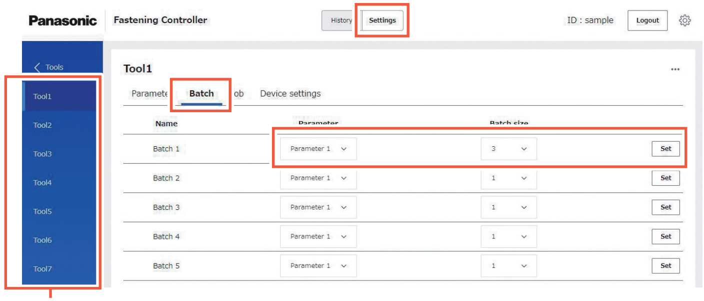
Sollwert	Zielmenge
20 Nm	10

* Wenn der Controller während der Befestigung ausgeschaltet wird, wird die Befestigung nicht fortgesetzt, nachdem der Controller eingeschaltet wurde. Die Befestigung wird fortgesetzt, wenn sie von einem externen Gerät angefordert wird.
* Die E/A-Ausgangseinstellungen sind aktiviert.

Erstellung (Festlegung) eines Loses

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus. Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.
Wählen Sie auf dem Bildschirm für die Werkzeugnummer die Registerkarte „Batch“ aus und nehmen Sie die Einstellungen vor.
Wählen Sie aus dem Pull-down-Menü „Parameter“ einen Parameter aus und legen Sie „Batch size“ (die zu befestigende Menge, bis zu 99) fest. Klicken Sie auf [Set], um die Werte für „Repeat mode (Basic mode)“ festzulegen.

* Um das Werkzeug zu wechseln, wählen Sie das gewünschte Werkzeug aus der Werkzeugliste aus.
* Bis zu 5 Lose können registriert werden.

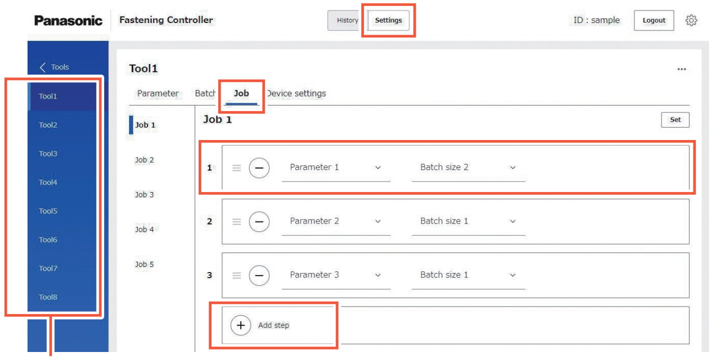

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
Paramete
Batch
ob
Device settings
Name
Parameter
Batch size
Batch 1
Parameter 1
3
Set
Batch 2
Parameter 1
1
Set
Batch 3
Parameter 1
1
Set
Batch 4
Parameter 1
1
Set
Batch 5
Parameter 1
1
Set

Werkzeugliste

Erstellung (Festlegung) eines Auftrags

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus. Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.
Wählen Sie auf dem Bildschirm für die Werkzeugnummer die Registerkarte „Job“ aus und nehmen Sie die Einstellungen vor.
Wählen Sie aus dem Pull-down-Menü „Parameter“ einen Parameter aus und legen Sie „Batch size“ (die zu befestigende Menge, bis zu 99) fest. Klicken Sie auf [Set], um die Werte für „Repeat mode (Basic mode)“ festzulegen.

* Bis zu 10 Schritte können registriert werden.
* Um das Werkzeug zu wechseln, wählen Sie das gewünschte Werkzeug aus der Werkzeugliste aus.
* Bis zu 5 Aufträge können registriert werden.

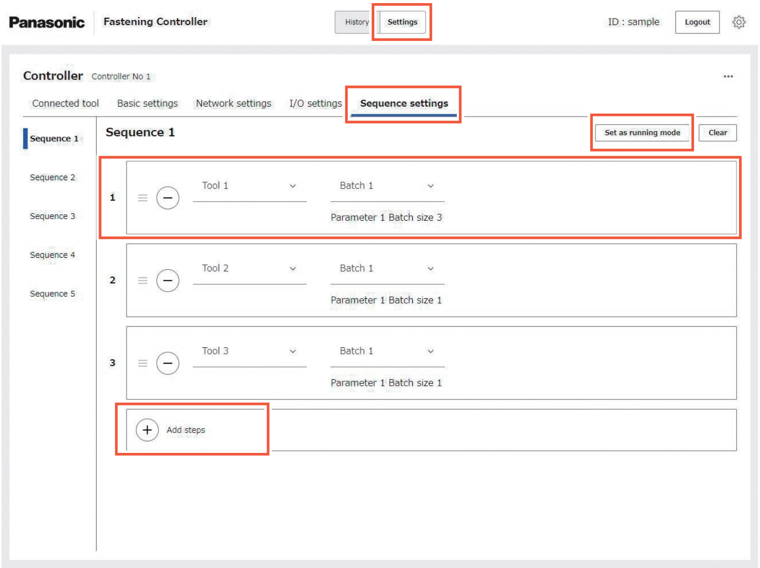

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Job 1
Job 2
Job 3
Job 4
Job 5
Job 1
Set
1
Parameter 1
Batch size 2
2
Parameter 2
Batch size 1
3
Parameter 3
Batch size 1
Add step

Werkzeugliste

Erstellung (Festlegung) einer Sequenz

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Sequence settings“ aus.
Wählen Sie auf dem Bildschirm „Sequence settings“ ein Werkzeug aus dem Pull-down-Menü „Tool“ aus und legen Sie „Batch“ oder „Job“ fest.
Klicken Sie auf [Set as running mode], um die Werte für „Repeat mode (Sequence mode)“ festzulegen.

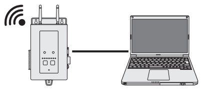
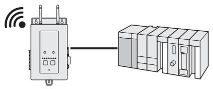
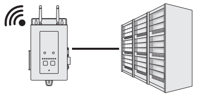
* Bis zu 5 Sequenzen können registriert werden.
* Bis zu 10 Schritte können registriert werden.
* Dasselbe Werkzeug kann mehr als einmal in einer Sequenz verwendet werden.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Sequence 1
Sequence 2
Sequence 3
Sequence 4
Sequence 5
Sequence 1
Set as running mode
Clear
1
Tool 1
Batch 1
Parameter 1 Batch size 3
2
Tool 2
Batch 1
Parameter 1 Batch size 1
3
Tool 3
Batch 1
Parameter 1 Batch size 1
Add steps

VERBINDUNG ZU EINEM EXTERNEN GERÄT

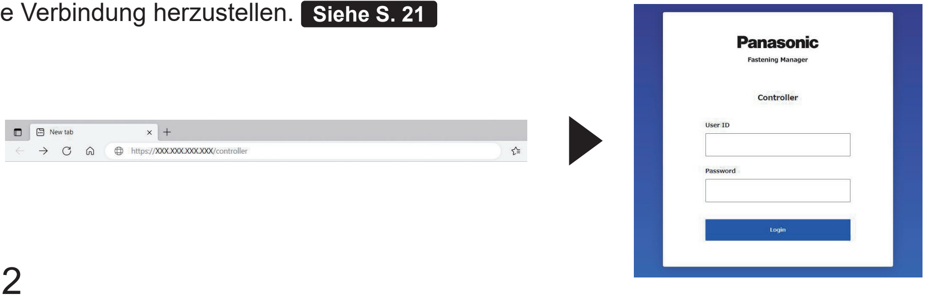
Unterstützte Arten von externen Geräten

Der Controller unterstützt die folgenden Arten von externen Geräten.

Merkmal	Konfigurations-PC	SPS	Hostsystem des Kunden
Abbildung			
Kommunikationsmethode	Ethernet	E/A	Ethernet
Kommunikationsprotokoll	http/https	— (nur EIN/AUS-Signal)	Open-Protokoll
Hauptverwendung	• Anzeige und Speicherung des Befestigungsverlaufs • Änderung der Einstellungen	• Ausgabe der Abschluss- und Fehlersignale • Umschalten des Befestigungsauftrags	• Export des Befestigungsverlaufs • Umschalten des Befestigungsauftrags
Daten, die exportiert werden können	• Seriennummern der Werkzeuge • Zeit • Beendigungs- und Fehlerergebnisse • Drehmomentwerte, Winkel, Länge der Befestigungszeiten • Wellenformdaten	• Beendigungs- und Fehlerergebnisse • Batch/job/sequence beenden • Batch/job/sequence ausgewählt • Werkzeug aktiv	• Seriennummern der Werkzeuge • Zeit • Beendigungs- und Fehlerergebnisse • Drehmomentwerte, Winkel, Länge der Befestigungszeiten • Wellenformdaten
Umschalten des Befestigungsauftrags	—	• Batch/job/sequence ausgewählt	• Parameter/batch ausgewählt
Sonstiges	Wird in einem Webbrowser angezeigt. Microsoft Edge wird empfohlen.	Je 8 Anschlüsse für Ein- und Ausgang	Informationen zu den unterstützten Befehlen finden Sie unter „Mit dem Open-Protokoll kompatible Befehle“. **Siehe S. 61** Die Steuerungssequenzen sind entsprechend zu überprüfen.

Verbindung zu einem Konfigurations-PC an einem entfernten Standort

Der Konfigurations-PC mit dem installierten Zertifikat kann sich aus der Ferne mit den Controllern verbinden.
Jeweils nur ein Zugriff auf die Konfigurationsfunktion wird akzeptiert.
Geben Sie die IP-Adresse des gewünschten Controllers in einen Webbrowser ein, um die Verbindung herzustellen. **Siehe S. 21**



https://XXX.XXX.XXX.XXX/controller

VERBINDUNG ZU EINEM EXTERNEN GERÄT ÜBER E/A

Verbindung über E/A

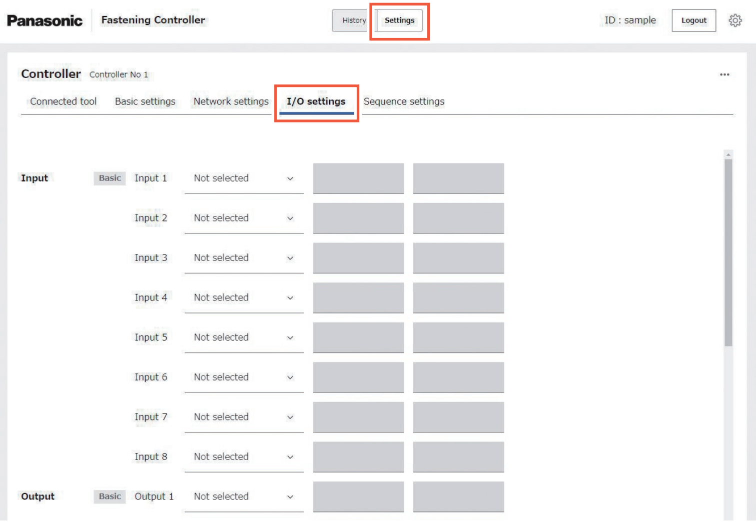
Sie können die unterstützten Befehle beliebig den 8 Eingangs- und 8 Ausgangsports zuweisen.
Weisen Sie sie auf dem Bildschirm „I/O settings“ zu.
Nachfolgend sind die Befehle aufgeführt, die den Ports zugewiesen werden können.

Eingabe	Unterstützter Befehl
1	Batch (Werkzeug 1 bis 5) Job (Werkzeug 1 bis 5) Sequence (1 bis 5) Batch reset (1 bis 8) Reset Suspend tool (1 bis 8) Suspend controller
2	
3	
4	
5	
6	
7	
8	

Ausgabe	Unterstützter Befehl
1	OK (Werkzeug 1 bis 8) NOK (Werkzeug 1 bis 8) Batch complete (Werkzeug 1 bis 5) Job complete (Werkzeug 1 bis 5) Sequence complete (1 bis 5) Tool active (Werkzeug 1 bis 8) Batch selected (Werkzeug 1 bis 5) Job selected (Werkzeug 1 bis 5) Sequence selected (1 bis 5)
2	
3	
4	
5	
6	
7	
8	

E/A-Einstellung

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „I/O settings“ aus.



Input 1: Not selected
Input 2: Not selected
Input 3: Not selected
Input 4: Not selected
Input 5: Not selected
Input 6: Not selected
Input 7: Not selected
Input 8: Not selected
Output 1: Not selected

* Sie können ein noch nicht registriertes Verhalten oder Ereignis zuweisen. (Außer für die Auftragsauswahl und Sequenzauswahl)

Befehle, die den Eingangsports zugewiesen sind

Nachfolgend sind die Befehle aufgeführt, die den Eingangsports zugewiesen werden können.
Wenn ein Signal von einem externen Gerät an einem der Anschlüsse eingeht, wird der zugewiesene Befehl ausgeführt.

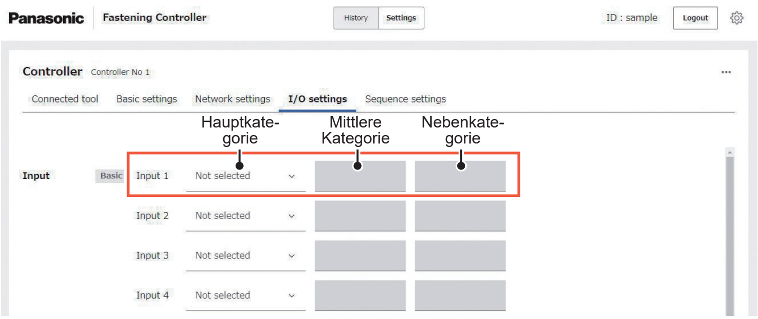
Hauptkategorie (Verhalten)	Mittlere Kategorie (Werkzeug)	Nebenkategorie (Losnummer usw.)
Batch	Werkzeug 1 bis 8	1-5
Job	Werkzeug 1 bis 8	1-5
Sequence	–	1-5
Suspend tool[*1]	Werkzeug 1 bis 8	–
Suspend controller[*1]	–	–
Batch reset	Werkzeug 1 bis 8	–
Reset	–	–

*1 Ist nur aktiviert, wenn das Eingangssignal gehalten wird.

Hinweise, wenn der Befehl „Suspend tool“ oder „Suspend controller“ eingeht

- Wenn „Suspend controller“ aktiviert ist, wird kein Befestigungsauftrag akzeptiert.
- Für eine Werkzeugnummer mit aktiviertem „Suspend tool“ wird kein „Batch“- oder „Job“-Befestigungsauftrag akzeptiert.
- Für die anderen Werkzeugnummern als die mit aktiviertem „Suspend tool“ wird ein „Batch“- oder „Job“-Befestigungsauftrag akzeptiert.
- Wenn „Suspend tool“ aktiviert ist, wird kein „Sequence“-Befestigungsauftrag akzeptiert. Zu diesem Zeitpunkt wird der Vorgang fortgesetzt, bis er das Werkzeug erreicht, bei dem „Suspend tool“ aktiviert ist.
- „Batch reset“ und „Reset“ werden auf die gleiche Weise wie ein Befestigungsauftrag behandelt.

Wählen Sie nach der Auswahl eines Verhaltens in der Hauptkategorie das gewünschte Werkzeug und dann eine Zahl (z. B. die Losnummer) aus.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Hauptkategorie
Mittlere Kategorie
Nebenkategorie
Input
Basic
Input 1
Not selected
Input 2
Not selected
Input 3
Not selected
Input 4
Not selected

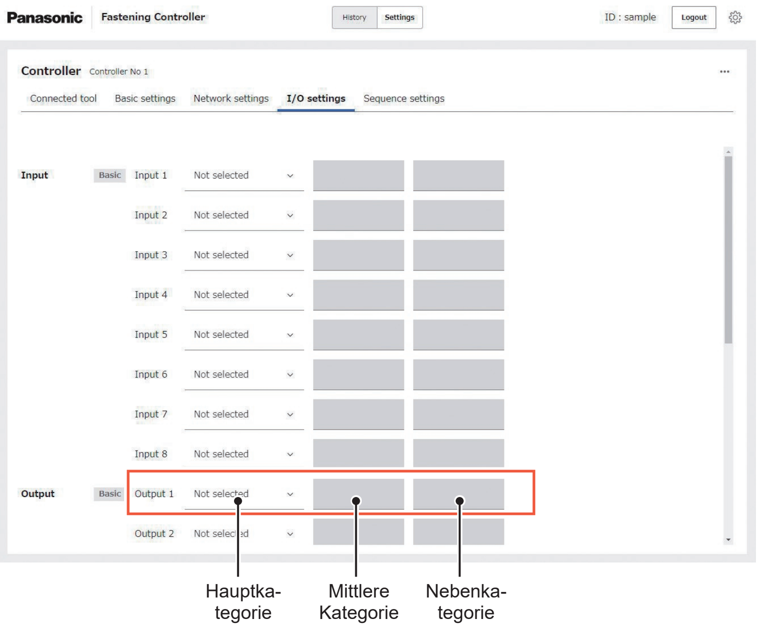
* Es wird keine Aktion durchgeführt, wenn ein nicht zugewiesenes Signal eingeht. (Kein Fehler tritt auf)

Befehle, die den Ausgangsports zugewiesen sind

Nachfolgend sind die Befehle aufgeführt, die den Ausgangsports zugewiesen werden können.
Wenn ein relevantes Ereignis aufgetreten ist, gibt der Controller ein Signal vom entsprechenden Anschluss an ein externes Gerät aus, wie durch den zugewiesenen Befehl festgelegt.

Hauptkategorie (Ereignis)	Mittlere Kategorie (Werkzeug)	Nebenkategorie (Losnummer usw.)
OK	Werkzeug 1 bis 8	–
NOK	Werkzeug 1 bis 8	–
Batch complete	Werkzeug 1 bis 8	1-5
Job complete	Werkzeug 1 bis 8	1-5
Sequence complete	–	1-5
Tool active	Werkzeug 1 bis 8	–
Batch selected	Werkzeug 1 bis 8	1-5
Job selected	Werkzeug 1 bis 8	1-5
Sequence selected	–	1-5

Wählen Sie nach der Auswahl eines Ereignisses in der Hauptkategorie das gewünschte Werkzeug und dann eine Zahl (z. B. die Losnummer) aus.

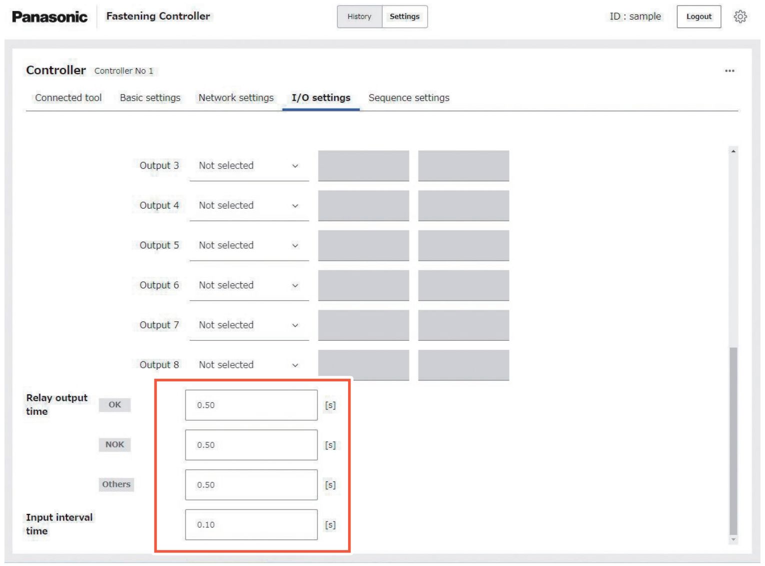

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Input 1
Not selected
Input 2
Not selected
Input 3
Not selected
Input 4
Not selected
Input 5
Not selected
Input 6
Not selected
Input 7
Not selected
Input 8
Not selected
Output
Basic
Output 1
Not selected
Output 2
Not selected
Hauptkategorie
Mittlere Kategorie
Nebenkategorie

* Wenn der Controller während der Ausführung eines Ausgabebefehls ausgeschaltet wird, wird der Vorgang nach dem Einschalten des Controllers nicht fortgesetzt. (Beachten Sie, dass die Befestigungsverlaufsdaten gespeichert werden.)

VERBINDUNG ZU EINEM EXTERNEN GERÄT ÜBER E/A (Fortsetzung)

Weitere Einstellungen

Sie können andere E/A-bezogene Einstellungen wie unten beschrieben vornehmen.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Output 3 Not selected
Output 4 Not selected
Output 5 Not selected
Output 6 Not selected
Output 7 Not selected
Output 8 Not selected
Relay output time OK 0.50 [s]
NOK 0.50 [s]
Others 0.50 [s]
Input interval time 0.10 [s]

Relay output time (OK)

Wählen Sie die Zeitspanne aus, bis das Relais ein Befestigungsabschlusssignal ausgibt.
[Standard] 0.5 s
[Einstellungsbereich] 0.01 s bis 10 s

Relay output time (NOK)

Wählen Sie die Zeitspanne, bis das Relais ein Befestigungsfehlersignal ausgibt.
[Standard] 0.5 s
[Einstellungsbereich] 0.01 s bis 10 s

Relay output time (Others)

Wählen Sie die Zeitspanne aus, bis das Relais ein anderes Signal als die Befestigungsabschluss- und Befestigungsfehlersignale ausgibt.
[Standard] 0.5 s
[Einstellungsbereich] 0.01 s bis 10 s

Input interval time

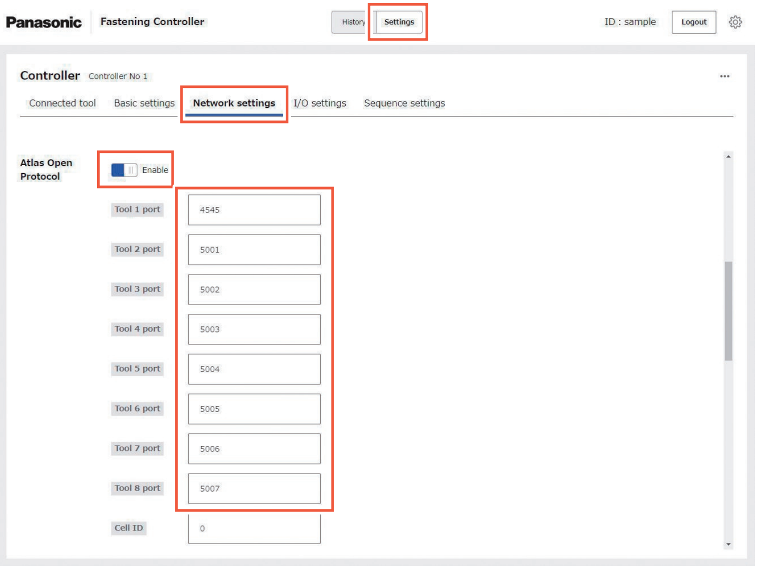
Wählen Sie die Zeitspanne aus, in der die aufeinanderfolgenden Eingangssignale nicht gezählt (akzeptiert) werden.
Diese Einstellung wird vorgenommen, um Doppelzählungen aufgrund von Rauschen usw. zu vermeiden.
[Standard] 0.1 s
[Einstellungsbereich] 0.01 s bis 10 s

VERBINDUNG ZU EINEM EXTERNEN GERÄT ÜBER DAS OPEN-PROTOKOLL

Verbindung über die Open-Protokoll-Kommunikation

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Network settings“ aus.

Aktivieren Sie „Atlas Open Protocol“.
Legen Sie die Portnummern für die jeweils verwendeten Werkzeuge fest.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Atlas Open Protocol Enable
Tool 1 port 4545
Tool 2 port 5001
Tool 3 port 5002
Tool 4 port 5003
Tool 5 port 5004
Tool 6 port 5005
Tool 7 port 5006
Tool 8 port 5007
Cell ID 0

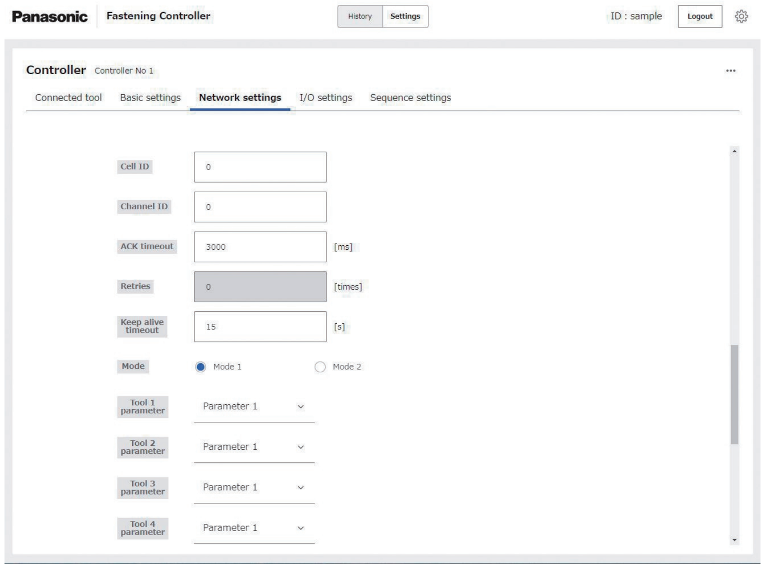
Tool port

Weisen Sie jedem Tool eine Portnummer für die Open-Protokoll-Kommunikation zu.
[Standard] Werkzeug 1 - 4545,
Werkzeug 2 bis 8 - 5001 bis 5007
[Einstellungsbereich] Werkzeug 1 bis 8 - 1024 bis 49151

VERBINDUNG ZU EINEM EXTERNEN GERÄT ÜBER DAS OPEN-PROTOKOLL (Fortsetzung)

Weitere Einstellungen

Legen Sie bei Bedarf weitere Punkte fest.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID 0

Channel ID 0

ACK timeout 3000 [ms]

Retries 0 [times]

Keep alive timeout 15 [s]

Mode ● Mode 1 ○ Mode 2

Tool 1 parameter Parameter 1

Tool 2 parameter Parameter 1

Tool 3 parameter Parameter 1

Tool 4 parameter Parameter 1

Cell ID

Legen Sie die Zell-ID fest.
[Standard] 0
[Einstellungsbereich] 0 bis 9999

Channel ID

Legen Sie die Kanal-ID fest.
[Standard] 0
[Einstellungsbereich] 0 bis 99

ACK timeout

Legen Sie die Zeitspanne fest, über die auf eine Antwort auf eine Anforderungsnachricht vom Controller gewartet wird.
[Standard] 3000 ms
[Einstellungsbereich] 100 ms bis 30000 ms

Retries

Legen Sie fest, wie oft das Senden einer Anforderungsnachricht vom Controller wiederholt wird.
[Standard] 0 times
[Einstellungsbereich] Nicht auswählbar (fest)

Keep alive timeout

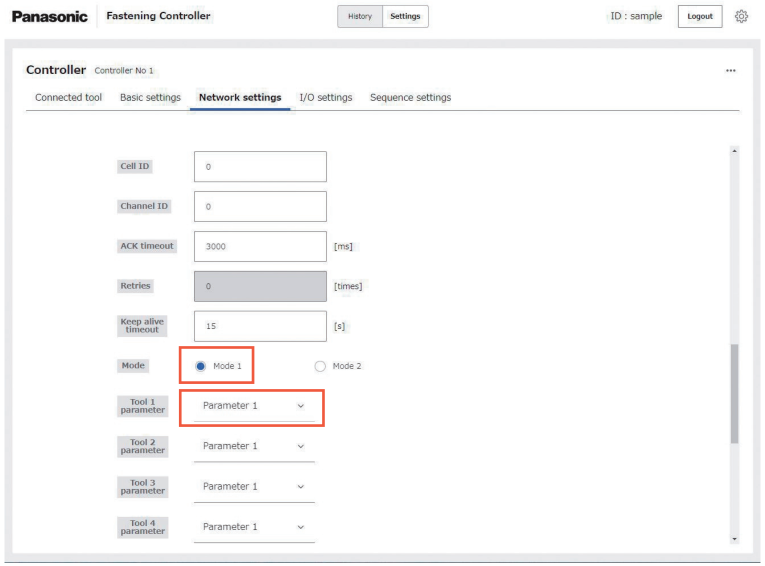
Legen Sie die Zeitspanne fest, nach der das Auftreten einer Unterbrechung nach der letzten Kommunikation mit einem Hostsystem festgestellt wird.
[Standard] 15 s
[Einstellungsbereich] 1 s bis 60 s

Mode

Legen Sie den Betriebsmodus fest.
Mode 1: Bedingungslose Befestigung mit vorregistrierten Parametern
Mode 2: Befestigung mit von einem Host-System vorgegebenen Parametern
[Standard] Mode 1
[Einstellungsbereich] Mode 1 / Mode 2

Zuweisung der Befestigungsparameter (Mode 1)

„Mode 1“(ohne vorgegebene Parameter) erfordert für die Werkzeuge vorregistrierte Befestigungsparameter.
Wählen Sie einen Parameter aus dem Pull-down-Menü aus, siehe unten.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID 0

Channel ID 0

ACK timeout 3000 [ms]

Retries 0 [times]

Keep alive timeout 15 [s]

Mode ● Mode 1 ○ Mode 2

Tool 1 parameter Parameter 1

Tool 2 parameter Parameter 1

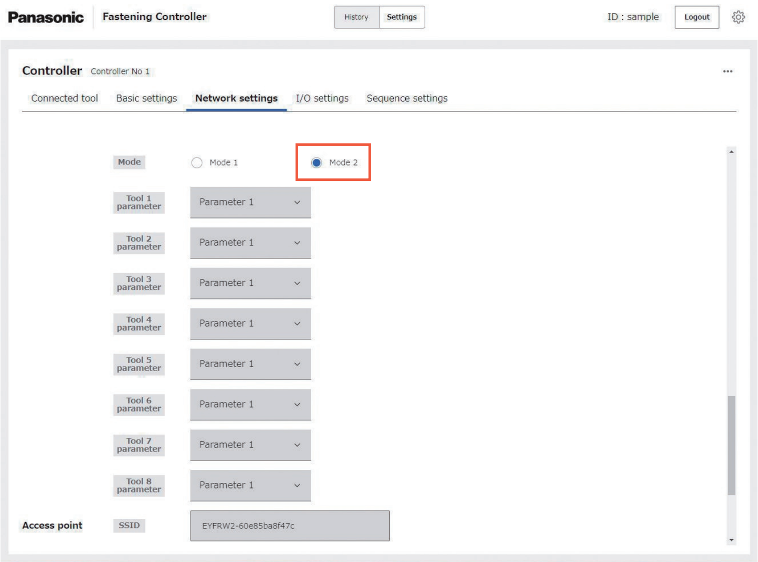
Tool 3 parameter Parameter 1

Tool 4 parameter Parameter 1

VERBINDUNG ZU EINEM EXTERNEN GERÄT ÜBER DAS OPEN-PROTOKOLL (Fortsetzung)

Zuweisung der Befestigungsparameter (Mode 2)

Die Befestigung kann mit einem MID-0018-Befehl durch ein externes Gerät befohlen werden.
Sie können „Parameter“ oder „Batch“ in einem Befestigungsauftrag angeben.



Mode ○ Mode 1 ● Mode 2

Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1
Tool 5 parameter: Parameter 1
Tool 6 parameter: Parameter 1
Tool 7 parameter: Parameter 1
Tool 8 parameter: Parameter 1
SSID: EYFRW2-60e85ba8f47c

■ Angabe von „Parameter“ in einem Befestigungsauftrag

Geben Sie „0“ in die Hunderterstelle der ID ein.
Die Zehner- und Einerstellen zeigen eine Parameternummer an.

Beispiel: ID des Parameters 1: 001
ID des Parameters 5: 005

■ Angabe von „Batch“ in einem Befestigungsauftrag

Geben Sie „1“ in die Hunderterstelle der ID ein.
Die Zehner- und Einerstellen zeigen eine Losnummer an.

Beispiel: ID des Loses 1: 101
ID des Loses 5: 105

* „Job“ und „Sequence“ werden nicht unterstützt.

■ Mit dem Open-Protokoll kompatible Befehle

Der Controller unterstützt die folgenden Befehle.
Detaillierte Informationen zu den Befehlen finden Sie in der Open-Protokoll-Spezifikation.

MID 0001 Application communication start

Revision 1 wird unterstützt.
[Inhalt] Kommunikation starten

MID 0002 Application communication start acknowledge

Revision 1 wird unterstützt.
[Inhalt] Kommunikation bestätigen

MID 0004 Application command error

Revision 1 wird unterstützt.
[Inhalt] Befehlsfehler

MID 0005 Application command accepted

Revision 1 wird unterstützt.
[Inhalt] Befehl bestätigen

MID 0018 Select parameter set, Dynamic Job included

Revision 1 wird unterstützt.
Informationen zur Zuweisung finden Sie unter „Zuweisung der Befestigungsparameter (Mode 2)“. **Siehe S. 60**
[Inhalt] Parameterfestlegungsauftrag

MID 0042 Disable tool

Revision 1 wird unterstützt.
[Inhalt] Werkzeug deaktiviert

MID 0043 Enable tool

Revision 1 wird unterstützt.
[Inhalt] Werkzeug aktiviert

MID 0050 Vehicle ID number download request

Revision 1 wird unterstützt.
[Inhalt] Anforderung zur Erfassung der Fahrzeug-ID

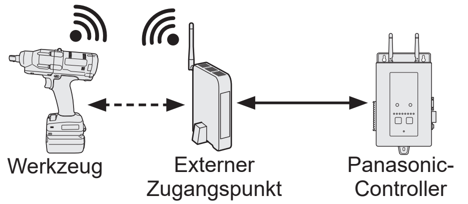
MID 0060 Last tightening result data subscribe
Revision 1 und 2 werden unterstützt. [Inhalt] Registrierung der Daten des endgültigen Befestigungsergebnisses
MID 0061 Last tightening result data
Revision 1 und 2 werden unterstützt. [Inhalt] Befestigungsergebnis hochladen
MID 0062 Last tightening result data acknowledge
Revision 1 und 2 werden unterstützt. [Inhalt] Hochladen des Befestigungsergebnisses bestätigen
MID 9999 Keep alive message
Revision 1 wird unterstützt. [Inhalt] Verfügbarkeit überprüfen

VERBINDUNG ÜBER EINEN EXTERNEN ZUGANGSPUNKT

Einrichtung

Der Controller kann über einen externen Zugangspunkt anstelle des eingebauten Zugangspunktes eine Verbindung zu den Werkzeugen über drahtlose Kommunikation herstellen.
Der Controller kann Werkzeuge steuern, egal wo er installiert ist.
Verbinden Sie den Zugangspunkt und den Controller mit einem kabelgebundenen LAN.

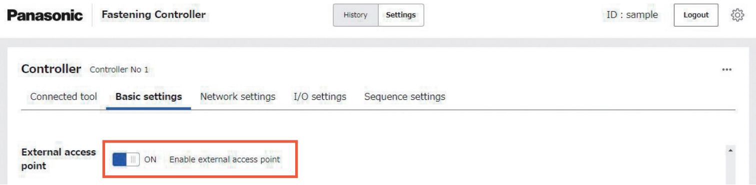
* Die Reichweite der drahtlosen Verbindung und die Leistung ändert sich in Abhängigkeit vom verwendeten Zugangspunkt.

Verbindung	Kommunikationsmethode	Hinweis
	Ethernet	• Wählen Sie bei der Modusauswahl den internen Zugangspunkt oder den externen Zugangspunkt aus. • Maximale Anzahl der angeschlossenen Werkzeuge: 8 * Sowohl für den internen als auch für den externen Zugangspunkt

Einstellungsverfahren

1 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings], wählen Sie die Registerkarte „Network settings“ aus und legen Sie den „External access point“ auf „ON“ fest.**

* „WLAN mode“ ist deaktiviert, wenn „External access point“ aktiviert ist.



Panasonic | Fastening Controller | History | Settings | ID : sample | Logout

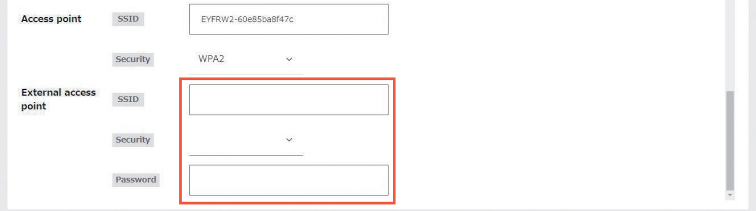
Controller Controller No 1

Connected tool | Basic settings | Network settings | I/O settings | Sequence settings

External access point: ON Enable external access point

2 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Network settings“ aus.Legen Sie unter „External access point“ „SSID“, „Security“ und „Password“ fest.**

* Sie können nur eine SSID im Controller registrieren. (Sie können nicht verschiedene SSIDs für verschiedene Werkzeuge registrieren)
* Siehe die Bedienungsanleitung Ihres externen Zugangspunkts.
* Nehmen Sie diese Einstellung vor, bevor Sie die Kopplungsregistrierung mit den Werkzeugen starten.
* Legen Sie die IP-Adresse des Werkzeugs fest, bevor Sie die Kopplungsregistrierung starten.



Access point
SSID: EYFRW2-60e85ba8f47c
Security: WPA2

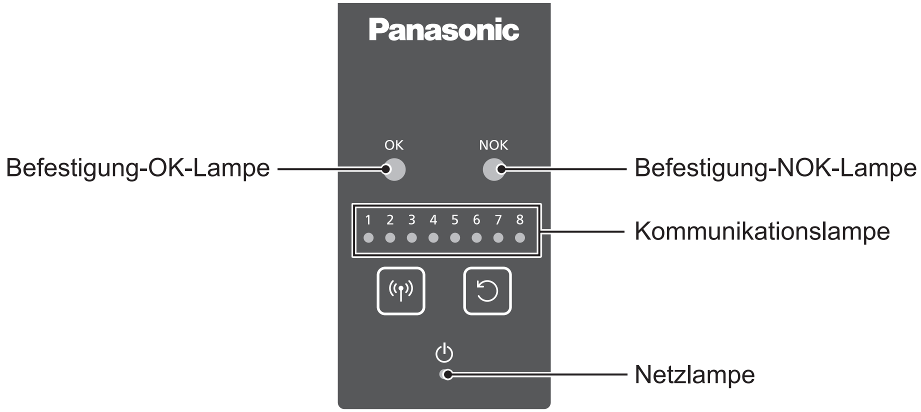
External access point
SSID:
Security:
Password:

ANZEIGELAMPEN UND SUMMER

Anzeigelampen und Summer

Die Anzeigelampen und der Summer zeigen den Status des Controllers an.

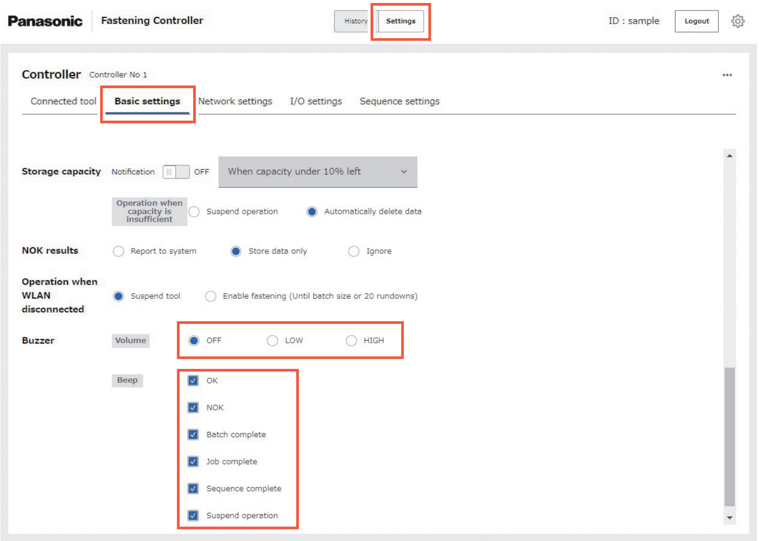
> **⚠ VORSICHT**
>
> Schalten Sie den Netzschalter nicht aus, solange die Lampe blinkt.
> Möglicherweise ist eine Initialisierung erforderlich.


Panasonic
Befestigung-OK-Lampe
OK
NOK
Befestigung-NOK-Lampe
1 2 3 4 5 6 7 8
Kommunikationslampe
Netzlampe

Status	Anzeigelampe	Summer
Eingeschaltet	Netzlampe (gelb) Leuchtet gelb	–
Ein Werkzeug ist zur Kopplung ausgewählt	Kommunikationslampe (blau) Blinkt langsam	–
Kopplung hergestellt	Kommunikationslampe (blau) Blinkt schnell	–
Kopplung abgeschlossen	Kommunikationslampe (blau) Leuchtet dauerhaft	Ein kurzer Piepton ▪
Kopplung nicht hergestellt	Kommunikationslampe (blau) Blinkt sehr langsam	–
Kopplung unterbrochen	Kommunikationslampe (blau) Aus	–
Befestigung abgeschlossen	OK-Lampe (grün) Leuchtet dauerhaft	Ein kurzer Piepton ▪
Befestigungsfehler	NOK-Lampe (gelb) Leuchtet dauerhaft	Ein langer Piepton ▬
Batch/job abgeschlossen	OK-Lampe (grün) Blinkt zweimal	Zwei kurze Pieptöne ▪ ▪
Sequenz abgeschlossen	OK-Lampe (grün) Blinkt dreimal	Drei kurze Pieptöne ▪ ▪ ▪
Fehler	Netzlampe (gelb) Blinkt	Zwei lange Pieptöne ▬ ▬

Summereinstellung

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Basic settings“ aus.
Legen Sie unter „Buzzer“ „Volume“ und „Beep“ fest.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Storage capacity: Notification OFF — When capacity under 10% left

Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data

NOK results: ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected: ● Suspend tool ○ Enable fastening (Until batch size or 20 rundowns)

Buzzer

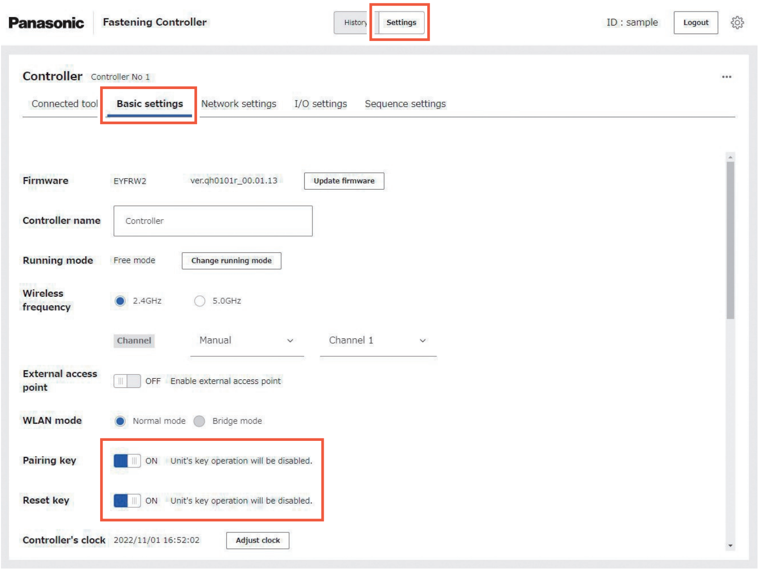
Volume: ● OFF ○ LOW ○ HIGH

Beep:
- ☑ OK
- ☑ NOK
- ☑ Batch complete
- ☑ Job complete
- ☑ Sequence complete
- ☑ Suspend operation

Punkt	Beschreibung
Volume	3 Stufen (OFF / LOW / HIGH) (LOW: 75 dB, HIGH: 85 dB)
Beep	Auf dem Konfigurations-PC ausgewählt (OK / NOK / Batch complete / Job complete / Sequence complete / Suspend operation)

EINSTELLUNG DER BEDIENTASTEN

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Basic settings“ aus.
Unter „Pairing key“ und „Reset key“ können Sie die Kopplungstaste und Zurücksetzentaste auf dem Bedienfeld deaktivieren.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

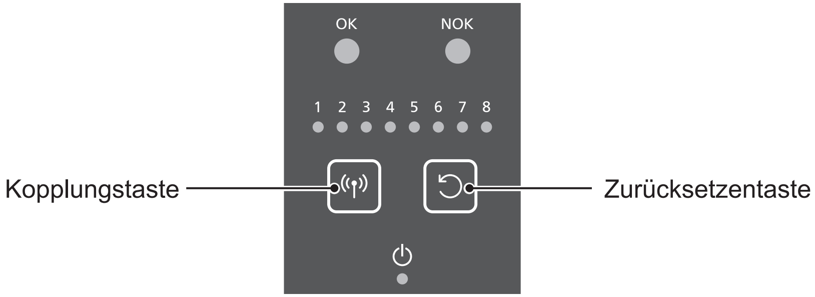
Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name: Controller
Running mode: Free mode
Wireless frequency: ● 2.4GHz ○ 5.0GHz
Channel: Manual, Channel 1
External access point: OFF Enable external access point
WLAN mode: ● Normal mode ○ Bridge mode
Pairing key: ON Unit's key operation will be disabled.
Reset key: ON Unit's key operation will be disabled.
Controller's clock: 2022/11/01 16:52:02

Pairing key

Aktivieren oder deaktivieren Sie Kopplungstaste auf dem Bedienfeld.
[Standard] ON
[Einstellungsbereich] ON (aktiviert)/OFF (deaktiviert)

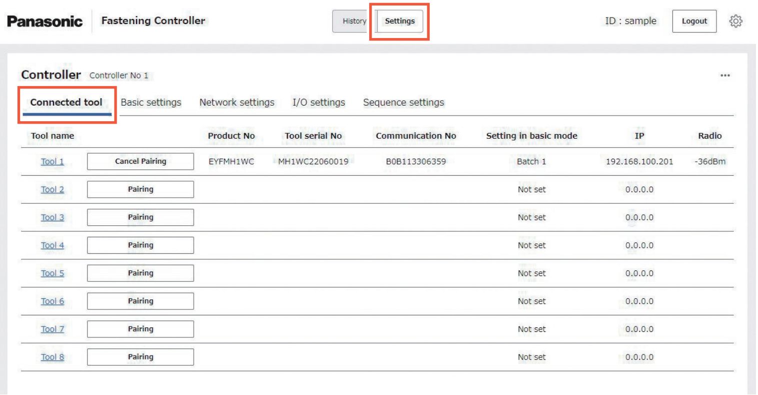
Reset key

Aktivieren oder deaktivieren Sie Zurücksetzentaste auf dem Bedienfeld.
[Standard] ON
[Einstellungsbereich] ON (aktiviert)/OFF (deaktiviert)


OK
NOK
1
2
3
4
5
6
7
8
Kopplungstaste
Zurücksetzentaste

ÜBERPRÜFEN DER INFORMATIONEN DER ANGESCHLOSSENEN WERKZEUGE

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.
Sie können die Informationen und den Status der Werkzeuge einsehen, die mit dem Controller verbunden sind.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Nachfolgend sind die angezeigten Punkte aufgeführt.

Tool name

Die registrierte Werkzeugnummer (1 bis 8) wird angezeigt.

Tool serial No

Sie können die Gerätekennung des Werkzeugs festlegen und anzeigen.
Standard: 5-stellige Model-ID + 8-stellige Seriennummer (2-stelliges Herstellungsjahr + 2-stelliger Monat + 4-stellige Produktionscharge)

Product No

Die Produktnummer des Werkzeugs wird angezeigt.

Communication No

Die Gerätekennung (MAC-Adresse) des Kommunikationsteils des Werkzeugs wird angezeigt.

Setting in basic mode

Das Verhalten angezeigt, wenn der Running mode auf „Repeat mode (Basic mode)“ festgelegt ist.

IP

Die IP-Adresse des Werkzeugs wird angezeigt.

Radio

Die Stärke des vom Werkzeug empfangenen Funksignals (RSSI) wird angezeigt.
* Die Stärke der letzten Kommunikation wird angezeigt.
* Kann nicht gemessen werden und „0dBm“ wird angezeigt, wenn ein externer Zugangspunkt verwendet wird.

ARBEITSMONITOR

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Work monitor“ aus.
Die aktuellsten Befestigungsverlaufsprotokolle des Werkzeugs werden angezeigt. Sie können sie zum Arbeiten verwenden, indem Sie sich auf die Arbeitsergebnisse beziehen.

* Mehrere Konfigurations-PCs können sie gleichzeitig anzeigen. (Bis zu 8 Zugriffe. Mehrfachzugriffe vom selben Konto sind zulässig).

* Für die Anmeldung mit mehr als einem Konto wird die Verwendung verschiedener PCs empfohlen.

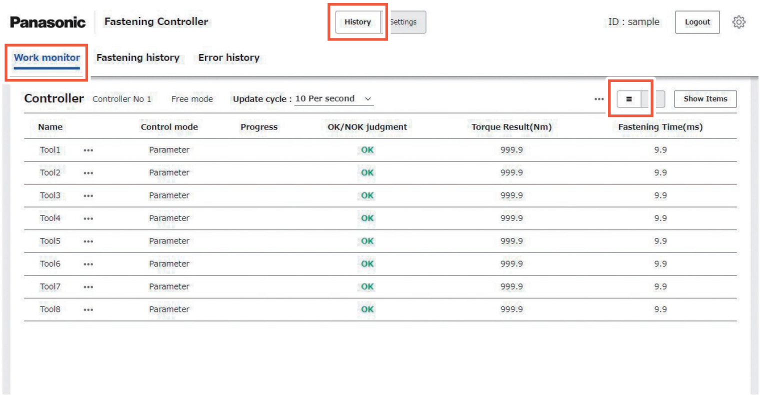
* Um mehr als ein Konto auf demselben PC zu verwenden, wird empfohlen, verschiedene Webbrowser zu verwenden.

* Jeweils nur ein Zugriff auf die Konfigurationsfunktion wird akzeptiert.

Umschalten des Anzeigeformats

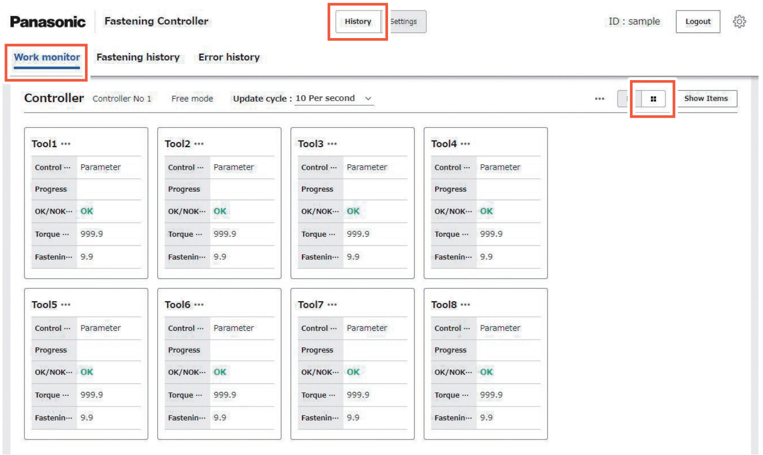
Sie können zwischen der „Listenansicht“ und „Rasteransicht“ auswählen.
Verwenden Sie das Ansichtssymbol oben rechts auf dem Bildschirm.

■ Listenansicht


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

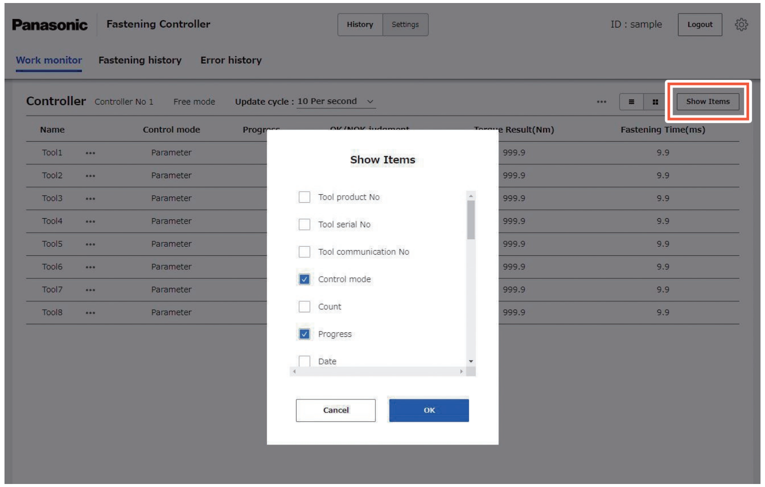
Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	999.9	9.9
Tool2	•••	Parameter		OK	999.9	9.9
Tool3	•••	Parameter		OK	999.9	9.9
Tool4	•••	Parameter		OK	999.9	9.9
Tool5	•••	Parameter		OK	999.9	9.9
Tool6	•••	Parameter		OK	999.9	9.9
Tool7	•••	Parameter		OK	999.9	9.9
Tool8	•••	Parameter		OK	999.9	9.9

■ Rasteransicht


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Tool1 ••• … Tool8 •••
Control ••• Parameter
Progress
OK/NOK••• OK
Torque ••• 999.9
Fastenin••• 9.9

Auswählen der anzuzeigenden Punkte

Wählen Sie die anzuzeigenden Punkte mit „Show Items“ aus.

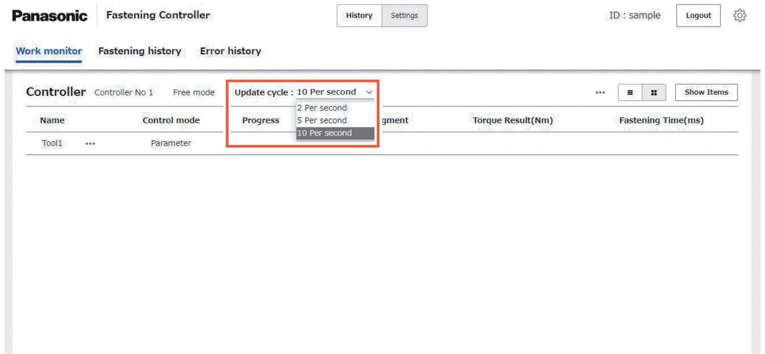

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Show Items
☐ Tool product No
☐ Tool serial No
☐ Tool communication No
☑ Control mode
☐ Count
☑ Progress
☐ Date
Cancel
OK

* In der „Listenansicht“ können Sie nach unten blättern und viele Punkte auswählen, die angezeigt werden.

* In der „Rasteransicht“ können Sie bis zu 5 Punkte anzeigen.

Auswahl des Anzeigeaktualisierungszyklus

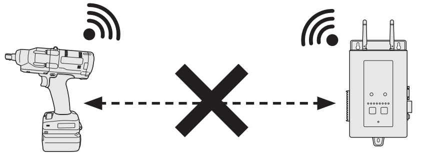
Sie können die automatische Aktualisierung der Anzeige einstellen.
Wählen Sie den Aktualisierungszyklus aus den folgenden Optionen „2 Per second“, „5 Per second“ und „10 Per second“ aus.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
2 Per second
5 Per second
10 Per second
Show Items
Name
Control mode
Progress
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter

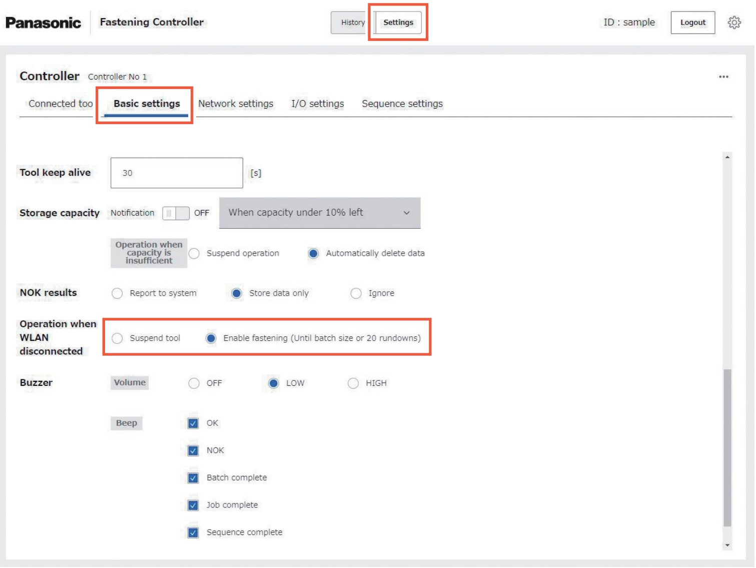
* Wenn eine große Anzahl von Werkzeugen oder Konfigurations-PCs angeschlossen ist, wird der Aktualisierungszyklus „10 Per second“ empfohlen. (Die Verarbeitung der Daten kann einige Zeit dauern.)

VERHALTEN DES WERKZEUGS BEI UNTERBROCHENER KABELLOSER KOMMUNIKATION

Bei einer vorübergehenden Unterbrechung der drahtlosen Kommunikation zwischen einem Werkzeug und dem Controller können Sie die Befestigung mit denselben Parametern fortsetzen.



Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Basic settings“ aus.
Wenn Sie „Operation when WLAN disconnected“ auf „Suspend tool“ setzen, wird die laufende Befestigung nach der Unterbrechung beendet, aber keine weitere Befestigung durchgeführt.
Wenn Sie „Enable fastening“ festlegen, wird keine weitere Befestigung durchgeführt, nachdem die befestigte Menge die Obergrenze erreicht hat.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
...
Connected too
Basic settings
Network settings
I/O settings
Sequence settings

Tool keep alive: 30 [s]

Storage capacity: Notification OFF — When capacity under 10% left

Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data

NOK results: ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected: ○ Suspend tool ● Enable fastening (Until batch size or 20 rundowns)

Buzzer: Volume ○ OFF ● LOW ○ HIGH

Beep:
☑ OK
☑ NOK
☑ Batch complete
☑ Job complete
☑ Sequence complete

Bei „Enable fastening“ sind die oberen Grenzwerte je nach dem Modus wie nachfolgend angegeben.

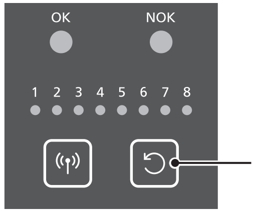
Modus		Verhalten
Free mode		Setzt die Befestigung von bis zu 20 Schrauben fort
Repeat mode	Basic mode	Setzt die Befestigung bis zum Ende des Loses oder von bis zu 20 Schrauben fort
	Sequence mode	Setzt die Befestigung bis zum Ende des Loses oder von bis zu 20 Schrauben fort * Die anderen Werkzeuge als das entsprechende Werkzeug laufen normal weiter.
External control mode		Setzt die Befestigung bis zum Ende des Loses oder von bis zu 20 Schrauben fort

ZURÜCKSETZEN DER ZÄHLUNG WÄHREND DES BETRIEBS

Um die Einstellungen zu ändern, beenden Sie die Befestigungssteuerung durch den Controller, wenn diese noch läuft. Ein Bestätigungsdialogfeld wird angezeigt, wenn Sie die Änderung übernehmen.
Sie können die gezählten Mengen durch die „Verwendung der Taste am Gerät“ oder „Einstellung auf dem Einstellungsbildschirm“ zurücksetzen.
* Dies gilt nicht für „Free mode“.

Verwendung der Taste am Gerät

Halten Sie die Zurücksetzentaste auf dem Controller mindestens 3 Sekunden lang gedrückt.
* Die Mengen aller aktiven Werkzeuge werden zurückgesetzt.

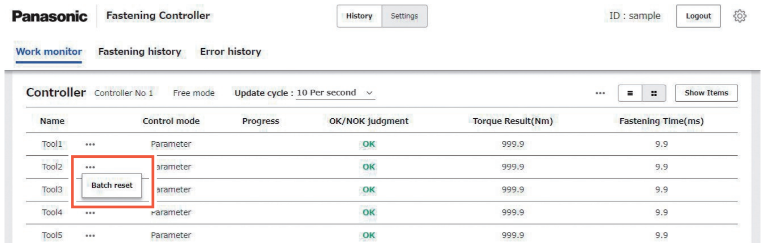

OK
NOK
1 2 3 4 5 6 7 8
Zurücksetzentaste

Einstellung auf dem Einstellungsbildschirm

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Work monitor“ aus.

■ Rücksetzung der Mengen pro Werkzeug

Klicken Sie auf dem Bildschirm „Work monitor“ auf ··· (die Werkzeugoptionstaste) und dann auf [Batch reset] der gewünschten Werkzeugnummer.

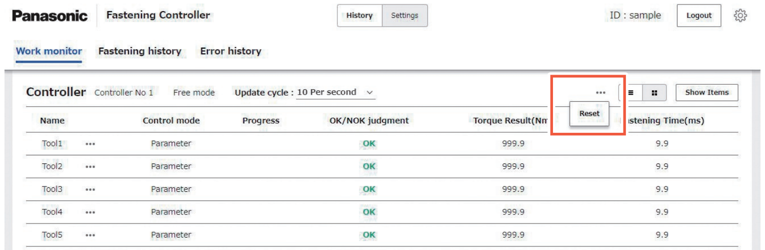

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Batch reset

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	arameter		OK	999.9	9.9
Tool3		arameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

■ Um die Mengen aller Werkzeuge zusammen zurückzusetzen

Klicken Sie auf dem Bildschirm „Work monitor“ auf ··· (die Controlleroptionstaste) und dann oben rechts auf [Reset].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Reset

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm	stening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	Parameter		OK	999.9	9.9
Tool3	···	Parameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

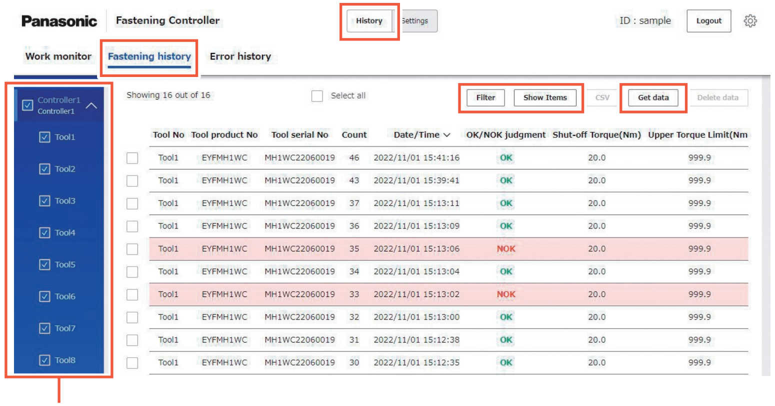
* Im Sequence mode werden die Mengen bis zum ersten Werkzeug zurückgesetzt.

ÜBERPRÜFUNG DER BEFESTIGUNGSVERLAUFSDATEN

Anzeige der Befestigungsverlaufsdaten

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Fastening history“ aus.
Sie können die von den Werkzeugen an den Controller gesendeten Befestigungsverlaufsdaten einsehen.
Um die Daten anzuzeigen, wählen Sie den gewünschten Controller und die Werkzeuge aus der Werkzeugliste auf der linken Seite aus und klicken Sie oben rechts auf [Get data].
Die Befestigungsverlaufsprotokolle werden in der Reihenfolge vom neuesten zum ältesten Datensatz angezeigt.

* Informationen über den Inhalt der Befestigungsverlaufseinträge finden Sie in der Bedienungsanleitung des Werkzeugs.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Filter
Show Items
CSV
Get data
Delete data

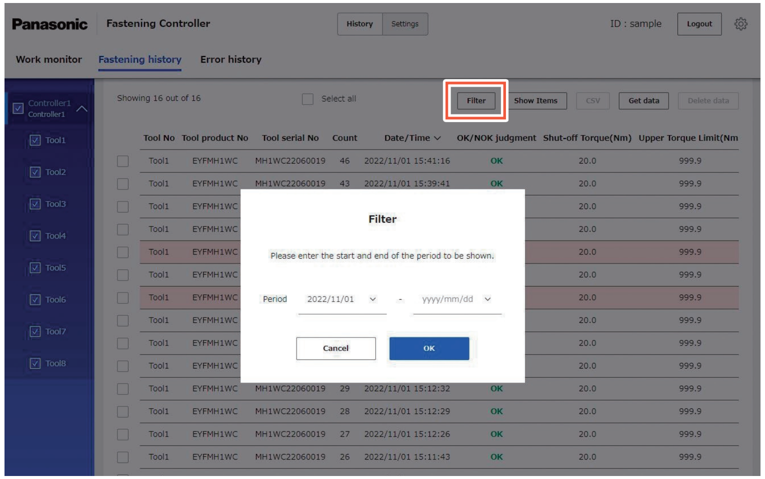
Showing 16 out of 16 ☐ Select all

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Werkzeugliste

Abruf der Befestigungsverlaufsprotokolle nach dem Zeitraum

Klicken Sie auf [Filter] und geben Sie den Zeitraum an, um die anzuzeigenden Befestigungsverlaufsprotokolle einzugrenzen.

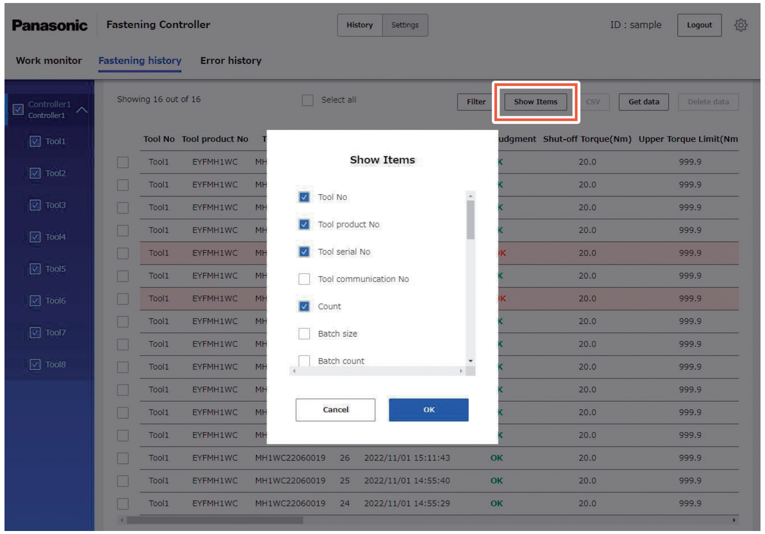

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Filter
Cancel
OK

Please enter the start and end of the period to be shown.

Period 2022/11/01 - yyyy/mm/dd

Einstellung der anzuzeigenden Punkte

Um die anzuzeigenden Punkte zu ändern, klicken Sie auf [Show items] und wählen Sie die gewünschten Punkte aus.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Show Items
Cancel
OK

☑ Tool No
☑ Tool product No
☑ Tool serial No
☐ Tool communication No
☑ Count
☐ Batch size
☐ Batch count

Kapazität der Befestigungsverlaufsdaten

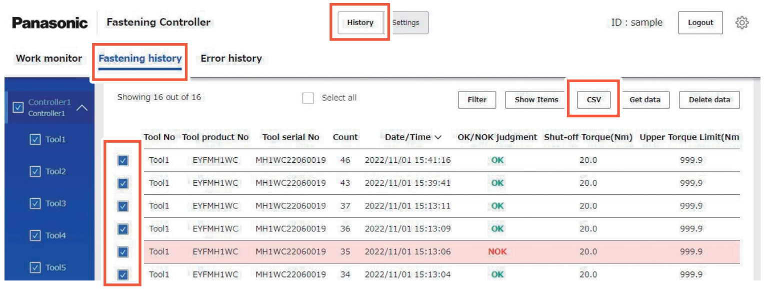
Der Controller kann maximal etwa 200,000 Befestigungsverlaufsprotokolle (einschließlich der Wellenformdaten) speichern.
Er setzt den Betrieb aus oder löscht die Protokolle automatisch (durch Überschreiben), wenn er weitere Protokolle erhält.
Es wird empfohlen, die Protokolle bei Bedarf regelmäßig im CSV-Format zu exportieren, wie in der folgenden Anleitung beschrieben.

Geschätzte Zeit bis zum Erreichen der vollen Speicherkapazität

	Menge pro Tag und Werkzeug		
Anzahl der Werkzeuge	**1,000**	**3,000**	**5,000**
2	Etwa 100 Tage	Etwa 33 Tage	Etwa 20 Tage
4	Etwa 50 Tage	Etwa 16 Tage	Etwa 10 Tage
8	Etwa 25 Tage	Etwa 8 Tage	Etwa 5 Tage

Export der Befestigungsverlaufsdaten im CSV-Format

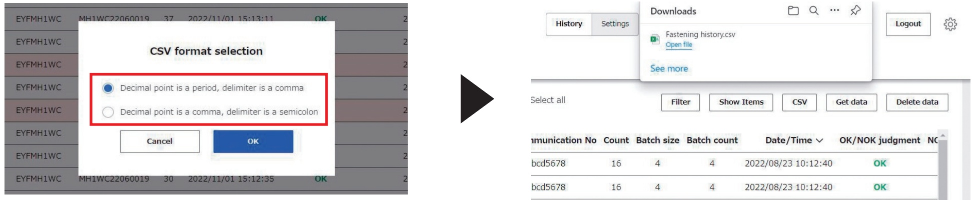
Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Fastening history“ aus.
Wählen Sie die gewünschten Protokolle aus und klicken Sie auf [CSV].
Die Befestigungsverlaufsprotokolle werden im CSV-Format exportiert.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16 ☐ Select all

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9

Sie können zwischen „Decimal point is a period, delimiter is a comma“ und „Decimal point is a comma, delimiter is a semicolon“ auswählen.


Cancel
OK
History
Settings
Downloads
See more
Logout
Filter
Show Items
CSV
Get data
Delete data

CSV format selection

● Decimal point is a period, delimiter is a comma
○ Decimal point is a comma, delimiter is a semicolon

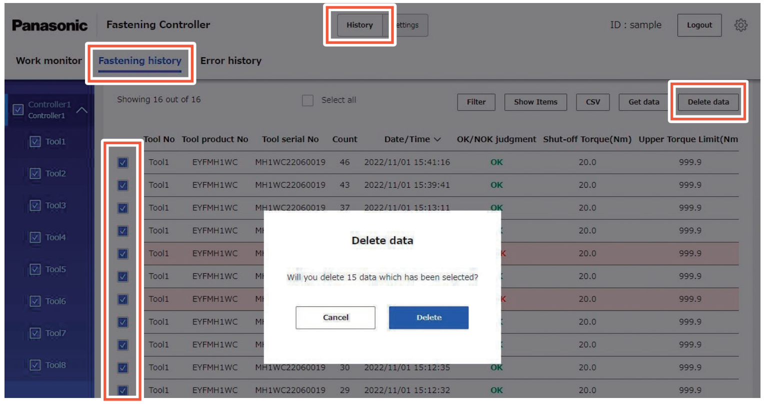
Fastening history.csv
Open file

Select all

ımunication No	Count	Batch size	Batch count	Date/Time	OK/NOK judgment	NC
bcd5678	16	4	4	2022/08/23 10:12:40	OK	
bcd5678	16	4	4	2022/08/23 10:12:40	OK	

Löschen der Befestigungsverlaufsdaten

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Fastening history“ aus.
Wählen Sie die gewünschten Protokolle aus und klicken Sie auf [Delete data].
Die Befestigungsverlaufsprotokolle werden gelöscht.


Panasonic
Fastening Controller
History
ettings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Filter
Show Items
CSV
Get data
Delete data
Cancel
Delete

Showing 16 out of 16 ☐ Select all

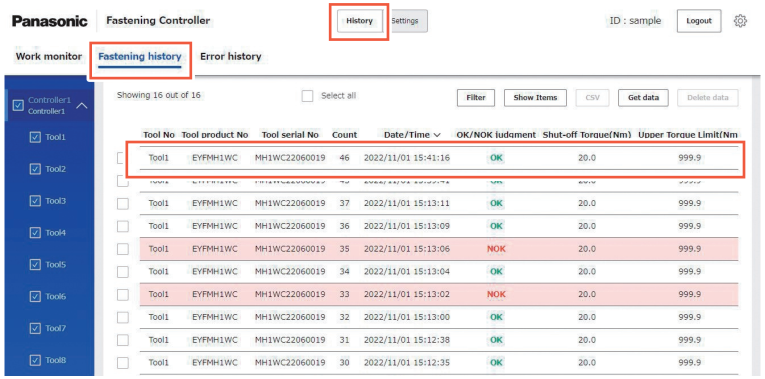
	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	29	2022/11/01 15:12:32	OK	20.0	999.9

Delete data

Will you delete 15 data which has been selected?

Anzeige der Wellenformdaten

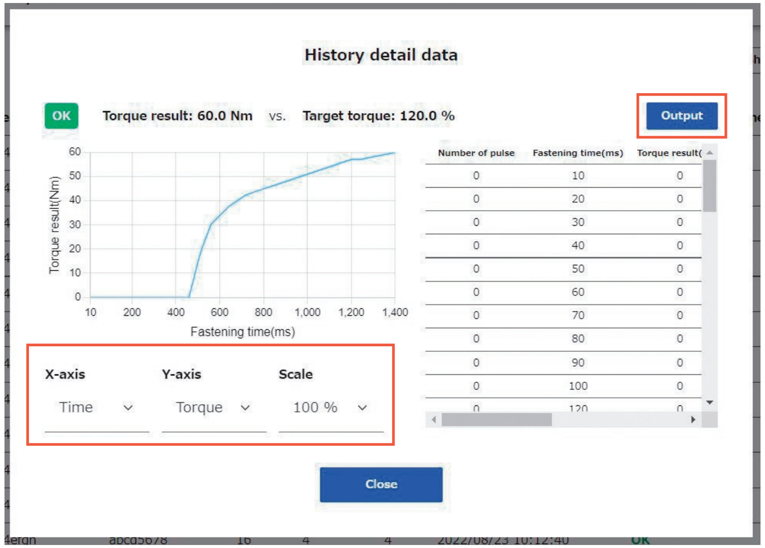
Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Fastening history“ aus.
Wenn Sie das Speichern von Wellenformdaten aktiviert haben, können Sie auf die Zeile des gewünschten Befestigungsverlaufsprotokolls doppelklicken, um ein Pop-up-Fenster mit den Wellenformdaten anzuzeigen.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16 ☐ Select all

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐								
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Sie können die Anzeige einstellen, indem Sie „X-axis“, „Y-axis“ und „Scale“auswählen.
Wenn Sie auf [Output] klicken, werden die Daten im CSV-Format exportiert.


Output
Torque result(Nm)
60
50
40
30
20
10
0
10
200
400
600
800
1,000
1,200
1,400
Fastening time(ms)
Close

History detail data

OK Torque result: 60.0 Nm vs. Target torque: 120.0 %

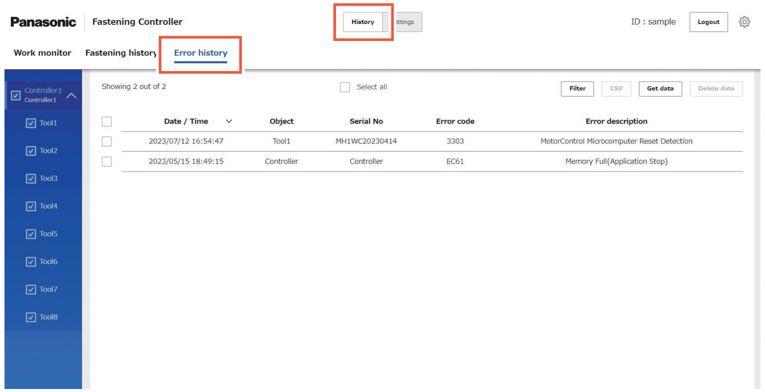
Number of pulse	Fastening time(ms)	Torque result(
0	10	0
0	20	0
0	30	0
0	40	0
0	50	0
0	60	0
0	70	0
0	80	0
0	90	0
0	100	0
0	120	0

X-axis	Y-axis	Scale
Time	Torque	100 %

* Setzen Sie bitte „Graph sending timing“ unter „Device settings“ auf „After every fastening“.

Anzeige des Fehlerverlaufs

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [History] und wählen Sie die Registerkarte „Error history“ aus.
Der Verlauf der aufgetretenen Fehler wird angezeigt.


Panasonic
Fastening Controller
History
ttings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Select all
Filter
CSV
Get data
Delete data

Showing 2 out of 2

Date / Time	Object	Serial No	Error code	Error description
2023/07/12 16:54:47	Tool1	MH1WC20230414	3303	MotorControl Microcomputer Reset Detection
2023/05/15 18:49:15	Controller	Controller	EC61	Memory Full(Application Stop)

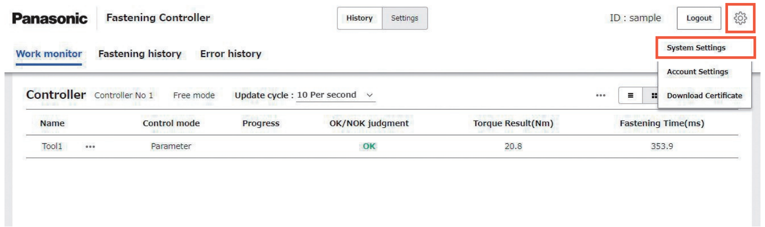
Nachfolgend sind die angezeigten Punkte aufgeführt.
* Informationen zum Fehlerinhalt finden Sie unter „FEHLERCODE“. **Siehe S. 90**

Date / Time	Das Datum und die Uhrzeit des aufgetretenen Fehlers werden angezeigt.
Object	Das Gerät (der Controller oder eines der Werkzeuge 1 bis 8), das den Fehler verursacht, wird angezeigt.
Serial No	Es wird die Seriennummer des Geräts angezeigt (des Controllers oder eines der Werkzeuge 1 bis 8), das einen Fehler verursacht.
Error code	Der aufgetretene Fehlercode wird angezeigt.
Error description	Der Inhalt des aufgetretenen Fehlers wird angezeigt.

Änderung der Sprache

Sie können „Japanese“ oder „English“ auswählen.

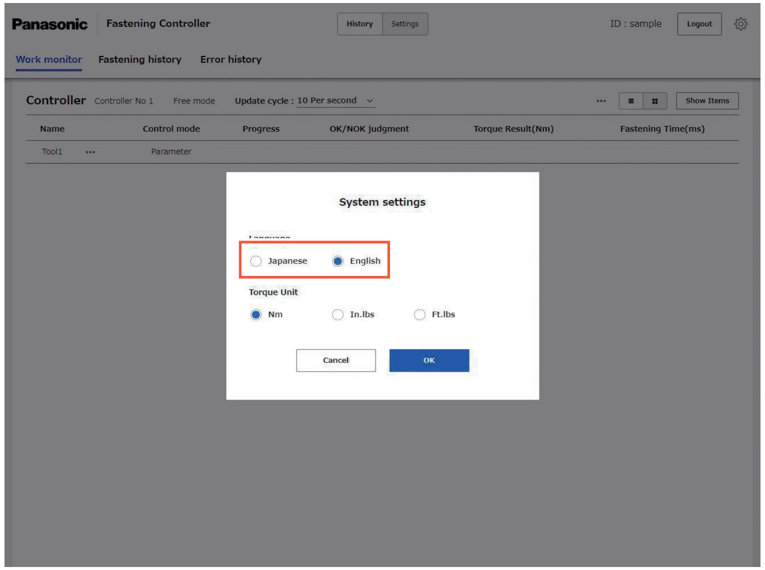
1 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) auf die Optionstaste oben rechts und wählen Sie „System Settings“ aus.**
Der Bildschirm „System settings“ wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 **Wählen Sie die Sprache auf dem Bildschirm „System settings“ aus.**
Sie können „Japanese“ oder „English“ auswählen.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

○ Japanese ● English

Torque Unit

● Nm ○ In.lbs ○ Ft.lbs

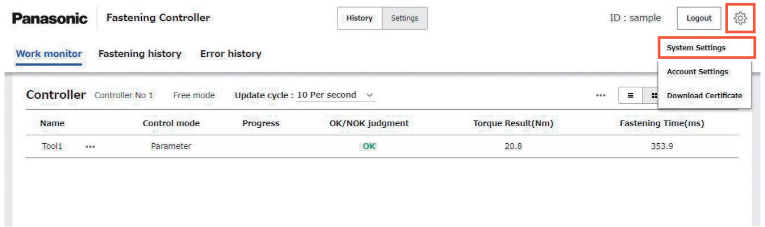
SYSTEMEINSTELLUNGEN (Fortsetzung)

Änderung der anzuzeigenden Drehmomenteinheit

Sie können „Nm“, „In.lbs“ oder „Ft.lbs“ auswählen.

1 **Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) auf die Optionstaste oben rechts und wählen Sie „System Settings“ aus.**

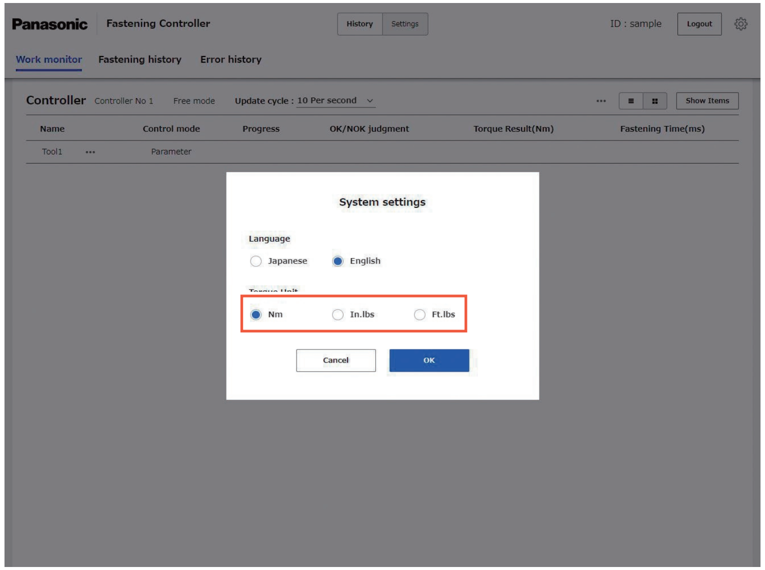
Der Bildschirm „System settings“ wird angezeigt.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	20.8	353.9

2 **Wählen Sie die Drehmomenteinheit auf dem Bildschirm „System settings“ aus.**

Sie können die Drehmomenteinheit aus den Optionen „Nm“, „In.lbs“ und „Ft.lbs“ auswählen.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

Language

○ Japanese ● English

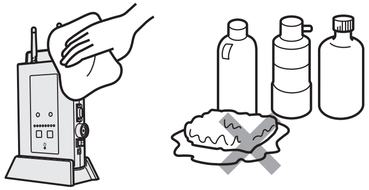
● Nm ○ In.lbs ○ Ft.lbs

REINIGUNG UND LAGERUNG

Reinigung

Mit einem weichen Tuch abwischen

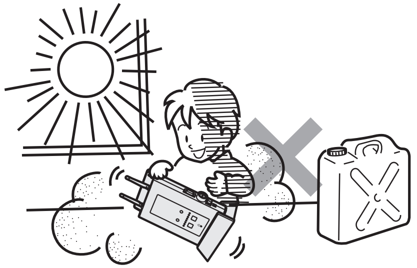
Verwenden Sie keine nassen Tücher, keine Verdünnung, kein Alkohol, Waschbenzin oder keine anderen flüchtigen Flüssigkeiten. (Ursache von Verfärbung, Verformung oder Rissbildung)



Lagerung

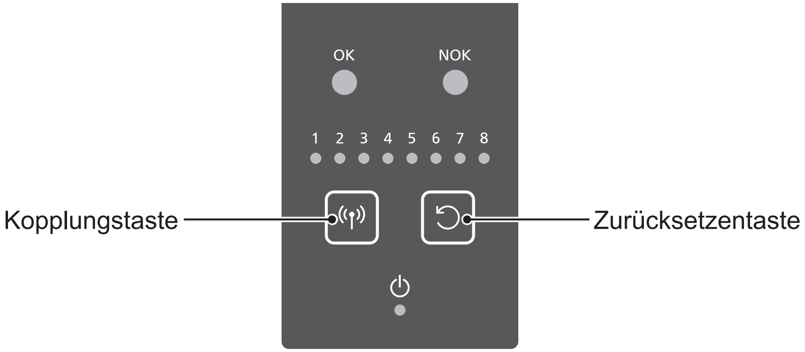
Vermeiden Sie während der Lagerung die folgenden Bedingungen.

- Fahrzeuginnenraum oder andere heiße Orte
- Orte, die der direkten Sonneneinstrahlung ausgesetzt sind
- Orte, die Wasser oder Feuchtigkeit ausgesetzt sind
- Orte mit vielen Fremdkörpern oder Staub
- Orte in der Reichweite von Kindern
- Orte, an denen sich Benzin oder andere brennbare Stoffe befinden
- Orte mit einer Absturzgefahr



Initialisierung des Controllers

Halten Sie die Kopplungstaste und die Zurücksetzentaste gemeinsam mindestens 10 Sekunden lang gedrückt, um den Controller zu initialisieren (auf die Werkseinstellung zurückzusetzen).

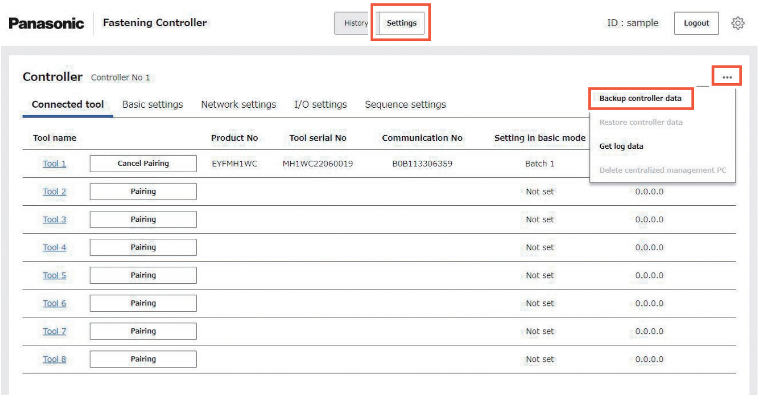

OK
NOK
1 2 3 4 5 6 7 8
Kopplungstaste
Zurücksetzentaste

* Je nach der Verwendung des Speichers kann dieser Vorgang mehr als 5 Minuten dauern.
* Sie können diesen Vorgang nicht ausführen, wenn die Tasten des Geräts deaktiviert sind. **Siehe S. 66**

Erstellung einer Sicherungskopie der Einstellungen

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings].
Klicken Sie auf ··· (die Controlleroptionstaste) und dann auf [Backup controller data].
Sie können eine Sicherungskopie der Einstellungen des Controllers und der Werkzeuge erstellen.

* Von den Befestigungsverlaufsdaten wird keine Sicherungskopie erstellt. Exportieren Sie sie bei Bedarf im CSV-Format.

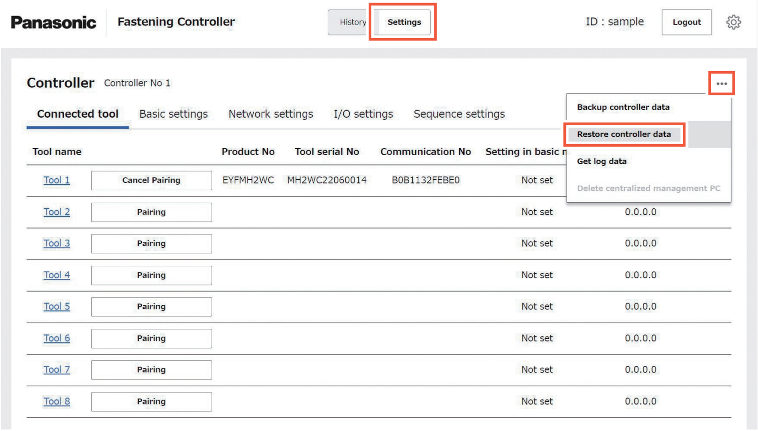

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Wiederherstellung der Einstellungen

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings].
Klicken Sie auf ··· (die Controlleroptionstaste) und dann auf [Restore controller data].
Sie können die Einstellungen des Controllers und der Werkzeuge aus ihrer Sicherungskopie wiederherstellen.

* Sie können diesen Vorgang nicht während der Befestigungssteuerung ausführen.
* Sie können diesen Vorgang nicht durchführen, wenn die Kopplung mit den Werkzeugen registriert ist. Heben Sie die Kopplung auf.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

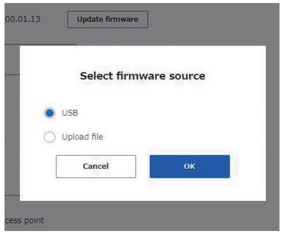
Tool name		Product No	Tool serial No	Communication No	Setting in basic m	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Aktualisierung der Firmware

Sie können die Firmware des Controllers und des Kommunikationsteils des Werkzeugs aktualisieren.

Verwenden Sie eine der folgenden Möglichkeiten, um die Firmware zu aktualisieren.

①Verwendung des USB-Anschlusses des Controllers.
  * Ein USB-Flashlaufwerk mit einer Passwortsperre kann nicht verwendet werden.
  * Speichern Sie nur die Firmwaredatei direkt auf dem USB-Flashlaufwerk, ohne einen Ordner zu erstellen.
②Vom Konfigurations-PC schreiben.
  * Wenn Sie „Upload file“ auswählen, wählen Sie auf dem Auswahlbildschirm die auf dem PC gespeicherte Firmwaredatei aus.

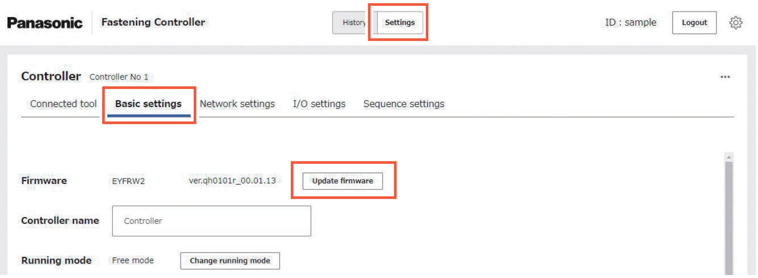

00.01.13
Update firmware
Select firmware source
Cancel
OK
cess point

● USB
○ Upload file

Die aktuelle Firmwareversion finden Sie auf unserer Website. **Siehe S. 2**
Oder wenden Sie sich an unseren Vertriebsmitarbeiter.

■Für den Controller

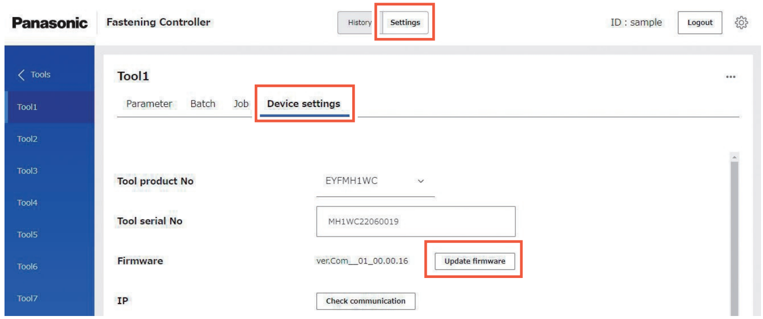
Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings], wählen Sie die Registerkarte „Basic settings“ aus und klicken Sie auf [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode

■Für den Kommunikationsteil des Werkzeugs

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings] und wählen Sie die Registerkarte „Connected tool“ aus.
Klicken Sie auf dem Bildschirm „Connected tool“ auf die gewünschte Werkzeugnummer.
Klicken Sie auf der Registerkarte „Device settings“ auf dem Bildschirm für die Werkzeugnummer auf [Update firmware].

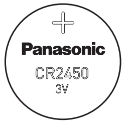

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
···
Parameter
Batch
Job
Device settings
Update firmware
Check communication

Tool product No EYFMH1WC
Tool serial No MH1WC22060019
Firmware ver.Com__01_00.00.16
IP

Austauschen der Knopfzellenbatterie

Um die Uhr (RTC) des Controllers am Laufen zu halten, tauschen Sie die Knopfzellenbatterie aus, indem Sie die nachstehende Austauschanleitung befolgen.

■ Batterietyp



CR2450

■ Austauschanleitung

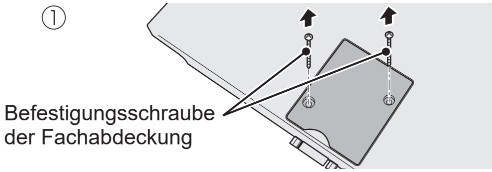
Die Knopfzellenbatterie wird verwendet, um die Uhr am Laufen zu halten, wenn der Controller ausgeschaltet ist. Um den Verbrauch so gering wie möglich zu halten, sollten Sie den Controller grundsätzlich nicht ausschalten.

Der Strom ist 12 Stunden pro Tag eingeschaltet (nur an Werktagen)	Der Strom ist immer eingeschaltet
Etwa 3 Jahre	Etwa 8 Jahre

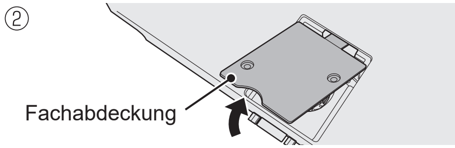
Tauschen Sie sie mit der folgenden Vorgehensweise aus oder wenden Sie sich an Ihren Händler. Es wird empfohlen, dass eine Person, die über Kenntnisse in der Elektrik verfügt, die Arbeiten ausführt.

1 **Entfernen Sie die 2 Befestigungsschrauben der Fachabdeckung und nehmen Sie dann die Fachabdeckung ab.**

①

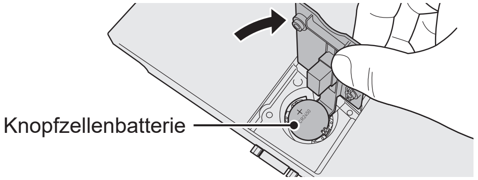


②



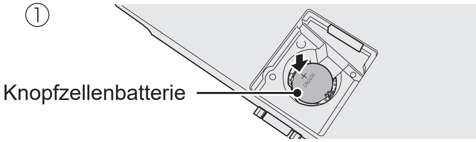
2 **Nehmen Sie die Knopfzellenbatterie mithilfe der Fachabdeckung heraus.**

Heben Sie die Knopfzellenbatterie mit dem Haken der Fachabdeckung an.



3 **Legen Sie eine neue Knopfzellenbatterie ein und bringen Sie die Fachabdeckung mit den 2 Befestigungsschrauben der Fachabdeckung an.**

①



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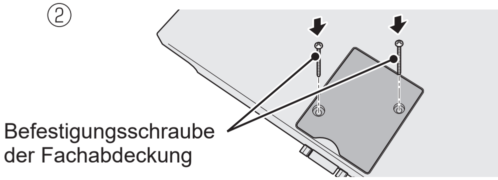
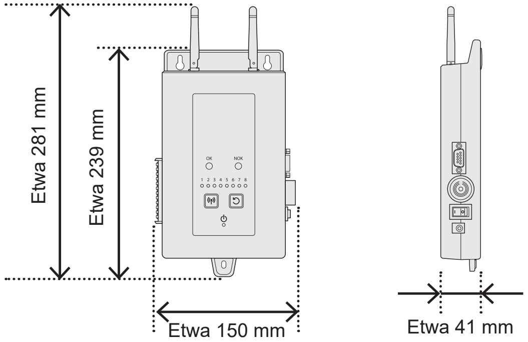


KAPAZITÄT UND TECHNISCHE DATEN

Spezifikationen des Controllers

Empfang der Befestigungsabschluss- und -fehlersignale bei der Montage von Produkten in Innenräumen

Modell-Nr.	EYFRW2
Stromversorgung	100 V-240 V Wechselstrom, 50/60 Hz
WLAN-Kommunikationsstandard	Wireless LAN (IEEE.802.11 a/b/g/n)
Frequenzband	2,4 GHz: 2,412 GHz bis 2,472 GHz 5 GHz: 5,180 GHz bis 5,240 GHz
Kanal	2,4 GHz: 1 bis 13 Kanäle 5 GHz: 36, 40, 44, 48 Kanäle
Sendeleistung [*1]	2,4 GHz: 89 mW 5 GHz: 141 mW
Reichweite	2,4 GHz: Etwa 16 m 5 GHz: Etwa 10 m
Anzahl der Werkzeuge, die registriert werden können	8 (maximal)
Eingangs-/Ausgangsanschlüsse (E/A)	8 Eingänge und 8 Ausgänge
Nennwert der Eingangsanschlusses	24 V Gleichstrom, 50 mA
Nennwert des Ausgangsanschlusses	30 V Gleichstrom, 3 A
Stromverbrauch	Etwa 30 W
Betriebstemperatur- und Luftfeuchtigkeitsbereiche	0 °C bis 45 °C, 20 % bis 90 %
Größe (Kalkulierte Abmessungen) Gesamtlänge × Gesamthöhe × Breite	Etwa 150 × 239 × 41 mm (Höhe einschließlich Antennen: 281 mm) 
Masse (Gewicht)	Etwa 550 g (nur Hauptgerät)
Kommunikationsschnittstelle	Ethernet × 2, RS232C × 1, USB-A × 1
Anzahl der Daten, die gespeichert werden können	Über 200,000 Befestigungsverlaufsprotokolle (einschließlich Wellenformdaten)
Kompatible Werkzeugmodelle	EYFMH1WC, EYFMH2WC, EYFMH1WP, EYFMH2WP

*1 Die Sendeleistung wurde von einer unabhängigen Stelle gemessen.

Drahtlos-Spezifikationen

Frequenzen nach Kanal

Frequenzband	Kanal	Frequenz
2,4 GHz	Kanal 1	2,412 GHz
	Kanal 2	2,417 GHz
	Kanal 3	2,422 GHz
	Kanal 4	2,427 GHz
	Kanal 5	2,432 GHz
	Kanal 6	2,437 GHz
	Kanal 7	2,442 GHz
	Kanal 8	2,447 GHz
	Kanal 9	2,452 GHz
	Kanal 10	2,457 GHz
	Kanal 11	2,462 GHz
	Kanal 12	2,467 GHz
	Kanal 13	2,472 GHz
5 GHz	Kanal 36	5,180 GHz
	Kanal 40	5,200 GHz
	Kanal 44	5,220 GHz
	Kanal 48	5,240 GHz

WebUI-Spezifikationen

Kompatibles Betriebssystem	Windows 10 oder höher (mit Unterstützung für einen der unten aufgeführten Webbrowser)
Unterstützter Webbrowser	Microsoft Edge Version 102 oder höher oder Google Chrome Version 102 oder höher
Unterstützte Sprachen	Englisch, Japanisch
Empfohlene Bildschirmauflösung	1024 × 768 oder mehr

VORSICHT

- Einige PCs können nicht verwendet werden, auch wenn sie den Anforderungen der Betriebsumgebung entsprechen.
- In Abhängigkeit von der Verwendungsumgebung usw. Ihres PCs können die Beschreibungen und Bildschirme in dieser Bedienungsanleitung von den tatsächlichen Beschreibungen und Bildschirmen abweichen.
  Bitte behalten Sie dies stets im Hinterkopf.
- Der Inhalt dieser Bedienungsanleitung kann ohne vorherige Ankündigung geändert werden.
- Jede Vervielfältigung des Inhalts dieser Bedienungsanleitung, auch auszugsweise, ohne Genehmigung ist untersagt.
- Die Beschreibungen zur Bedienung von Windows in dieser Bedienungsanleitung verwenden die Verfahren und Bildschirme von Windows 10.
- WebUI funktioniert nur auf dem kompatiblen Betriebssystem.
- Der Betrieb ist nicht für alle PCs garantiert, die den empfohlenen Umgebungsbedingungen entsprechen.

■ Nutzungsbedingungen (vor der Verwendung lesen)

<Einschränkungen>

WebUI ist eine Konfigurationssoftware für EYFRW2.

VORSICHT

- Beachten Sie Folgendes, wenn Sie die Funktion verwenden.
  Mit der Verwendung dieser Funktion erklären Sie sich mit den folgenden Nutzungsbedingungen einverstanden.

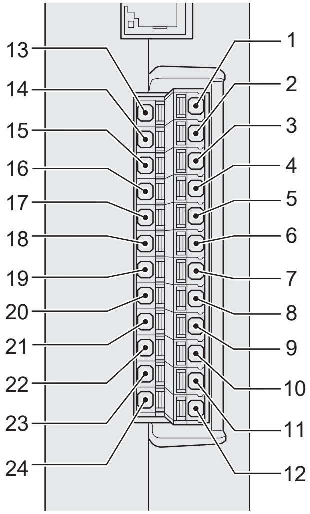
[Betriebsbedingungen]

Panasonic übernimmt keinerlei Garantie für diese Funktion.
Panasonic übernimmt keine Verantwortung für Schäden, einschließlich, aber nicht beschränkt auf direkte Verluste, indirekte Verluste, Streuverluste, Folgeschäden und besondere Verluste, die durch die Verwendung oder den Betrieb der Funktion verursacht werden.
Die unerlaubte Vervielfältigung und Verbreitung der Funktion ist untersagt.

KAPAZITÄT UND TECHNISCHE DATEN (Fortsetzung)

Kontakt-E/A-Spezifikationen

Zuordnung zwischen Ausgangsrelaisklemmen und Eingangsklemmen



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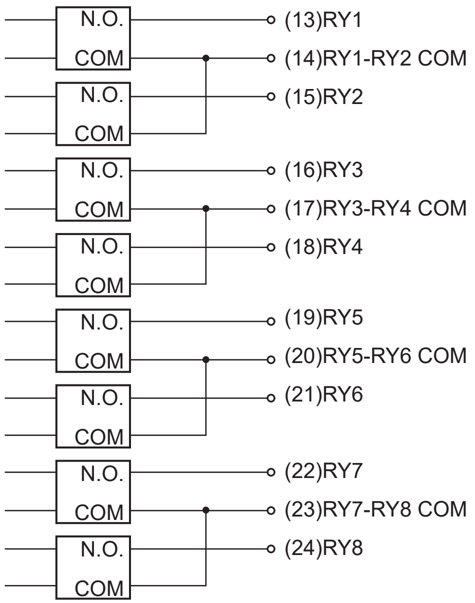
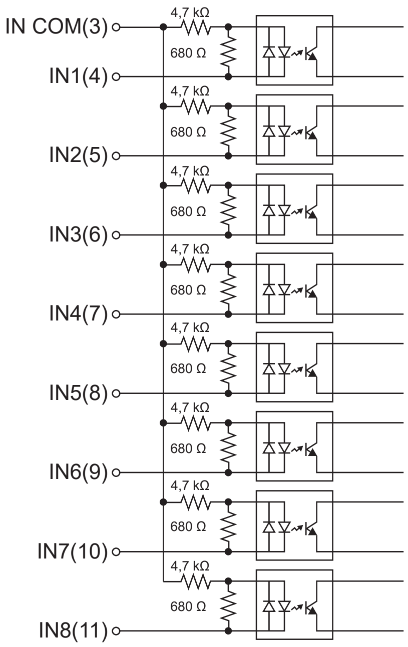
Nr.	Stiftbelegung
1	+24 V
2	+24 V
3	IN COM
4	IN 1
5	IN 2
6	IN 3
7	IN 4
8	IN 5
9	IN 6
10	IN 7
11	IN 8
12	24 V return

Nr.	Stiftbelegung
13	RY1
14	RY1-RY2 COM
15	RY2
16	RY3
17	RY3-RY4 COM
18	RY4
19	RY5
20	RY5-RY6 COM
21	RY6
22	RY7
23	RY7-RY8 COM
24	RY8

Anschlussplan der Klemmleiste



N.O.
COM
(13)RY1
(14)RY1-RY2 COM
(15)RY2
(16)RY3
(17)RY3-RY4 COM
(18)RY4
(19)RY5
(20)RY5-RY6 COM
(21)RY6
(22)RY7
(23)RY7-RY8 COM
(24)RY8



IN COM(3)
IN1(4)
IN2(5)
IN3(6)
IN4(7)
IN5(8)
IN6(9)
IN7(10)
IN8(11)
4,7 kΩ
680 Ω

FUNKZERTIFIZIERUNG

VORSICHTSMASSNAHMEN FÜR DIE DRAHTLOSE KOMMUNIKATION

Vorsichtsmaßnahmen bei der Verwendung eines WLAN-Geräts

Das Gerät verwendet ein Frequenzband, das gemeinsam mit anderen Geräten genutzt wird, z. B. mit industriellen, wissenschaftlichen und medizinischen Geräten (z. B. einer Mikrowelle) und Funkstationen wie zum Beispiel einer Betriebsfunkstelle (mit Lizenz) und einer Funkstation mit geringer Leistung (ohne Lizenz) für die mobile Identifizierung, die in Fertigungsstraßen von Fabriken verwendet wird, sowie einer Amateurfunkstation (mit Lizenz).

1. Vergewissern Sie sich vor der Verwendung des Geräts, dass sich in der Nähe keine Funkstation mit geringer Leistung zur mobilen Identifizierung oder keine Amateurfunkstation befindet.
2. Wenn das Gerät schädliche Interferenzen mit einer Betriebsfunkstelle für die mobile Identifizierung verursacht, stellen Sie die Nutzung des Frequenzbands sofort ein und wenden Sie sich an das unten genannte Kundendienstzentrum, um das Interferenzproblem zu lösen (z. B. durch die Installation einer Trennwand).
3. Wenn das Gerät schädliche Interferenzen mit einer Funkstation mit geringer Leistung zur mobilen Identifizierung oder einer Amateurfunkstation oder andere Probleme verursacht, wenden Sie sich an das Kundendienstzentrum.

■ Unter den folgenden Umgebungsbedingungen kann es zu Rauschen, geringerer Funkabdeckung oder Fehlfunktionen kommen.

- Es gibt ein Hindernis (z. B. ein Metall- oder Stahlbetonobjekt), das die reibungslose Funkübertragung zwischen dem drahtlosen Werkzeug und Controller verhindert.
- Die Antennen des Controllers sind von Metall verdeckt.
- Der Körper des Bedieners stört die Funkausbreitung zwischen dem Bediener (dem drahtlosen Werkzeug) und dem Controller.
- Es ist eine Mikrowelle, ein PC oder ein anderes Gerät in der Nähe vorhanden, das elektrisches Rauschen verursacht.
- Ein Mobiltelefon oder PHS-Telefon wird in der Nähe des drahtlosen Werkzeugs und Controllers verwendet.

LIZENZBEDINGUNGEN

Software-Lizenzbedingungen

Dieses Produkt enthält die folgende Software:

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Die als (3) - (11) kategorisierte Software wird in der Hoffnung herausgegeben, dass sie nützlich ist, aber OHNE JEGLICHE GARANTIE, auch nicht stillschweigend, der MARKTGÄNGIGKEIT oder EIGNUNG FÜR EINEN BESTIMMTEN ZWECK.

Detaillierte Informationen zu den Urheberrechtsinhabern und Lizenzen finden Sie ab Seite 93.

Mindestens 3 Jahre nach der Auslieferung dieses Produkts wird Panasonic jedem Dritten, der uns unter den unten angegebenen Kontaktdaten kontaktiert, gegen eine Gebühr, die nicht höher ist als unsere Kosten für die physische Durchführung der Quellcodeübermittlung, eine vollständige maschinenlesbare Kopie des entsprechenden Quellcodes, der unter der GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL oder anderen Lizenzen lizenziert ist, bei denen eine Verpflichtung dazu besteht, sowie den entsprechenden Copyright-Vermerk zur Verfügung stellen.

Kontaktinformationen: oss-cd-powertools-gl@ml.jp.panasonic.com

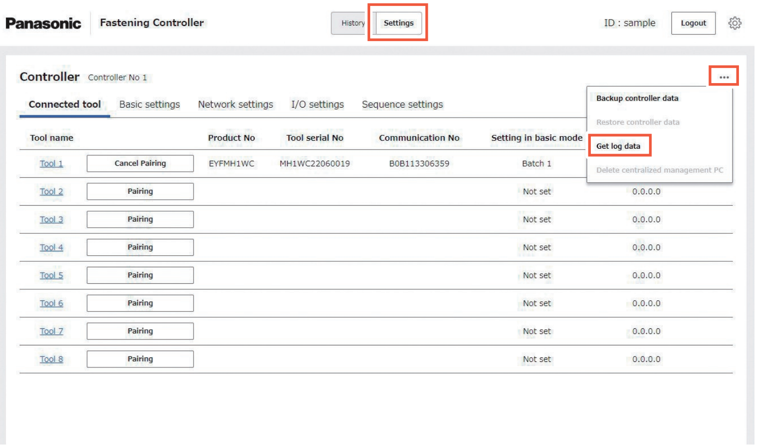
FEHLERCODE

Gerät	Fehlercode	Typ	Kategorie	Ereignis	Maßnahme
Controller	0xEF21	Warnung	Hardwarefehler	Fehler der Sekundär-CPU (Ausfall)	Starten Sie den Controller neu. Wenn das Problem weiterhin besteht, ist das Gerät möglicherweise defekt. Wenden Sie sich an Ihren Händler.
	0xEF51	Warnung	Hardwarefehler	Fehler Ether0	Das Gerät ist möglicherweise defekt. Wenden Sie sich an Ihren Händler.
	0xEF52	Warnung	Hardwarefehler	Fehler Ether1	Das Gerät ist möglicherweise defekt. Wenden Sie sich an Ihren Händler.
	0xEF61	Warnung	Hardwarefehler	Fehler Wi-Fi-Modul (Ausfall)	Starten Sie den Controller neu. Wenn das Problem weiterhin besteht, ist das Gerät möglicherweise defekt. Wenden Sie sich an Ihren Händler.
	0xCE42	Fehler	Softwarefehler	Fehler des Einstellungsinhalts	Setzen Sie den Controller auf die Werkseinstellung zurück und wiederholen Sie die Einstellung.
	0xCE43	Fehler	Softwarefehler	Rückzugsinformationsfehler	Halten Sie die Zurücksetzentaste am Controller 3 Sekunden oder länger gedrückt.
	0xEC61	Warnung	Softwarefehler	Die Kapazität zur Speicherung des Befestigungsverlaufs ist voll (Betrieb ausgesetzt)	Löschen Sie die Befestigungsverlaufsprotokolle auf dem Befestigungsverlaufsbildschirm, um etwas Speicherplatz freizugeben. Exportieren Sie sie, bevor Sie sie gegebenenfalls löschen.
Werkzeug	0x4301	Vorsicht	Softwarefehler	Speicherkapazität ist voll	Rufen Sie die Werkzeugeinstellungssoftware (Tool Manager) auf und löschen Sie die Arbeitsverlaufsprotokolle.
	0x4302	Vorsicht	Softwarefehler	Die Anzahl der in einer Warteschlange gesendeten Ergebnisse hat den oberen Grenzwert erreicht.	Das Werkzeug kann nicht mit dem Controller kommunizieren. Wechseln Sie den Arbeitsplatz. Wenn das Problem weiterhin besteht, ist das Gerät möglicherweise defekt. Wenden Sie sich an Ihren Händler.
	0x3303	Fehler	Softwarefehler	Zurücksetzen des Mikrocontrollers der Motorsteuerung erkannt	Ein aufgetretener Fehler wurde behoben.
	0x3304	Fehler	Softwarefehler	Zurücksetzen des Mikrocontrollers der Drehmomentberechnung erkannt	Ein aufgetretener Fehler wurde behoben.

Gerät	Fehlercode	Typ	Kategorie	Ereignis	Maßnahme
Werkzeug	0x4305	Vorsicht	Softwarefehler	Niedriger RTC-Batteriestand	Tauschen Sie die Knopfzellenbatterie im Werkzeug aus.
	0x4306	Vorsicht	Softwarefehler	Firmwareaktualisierungsfehler	Vergewissern Sie sich, dass die Firmwaredatei in Ordnung ist.
	0x4315	Vorsicht	Softwarefehler	USB-Kommunikationsfehler	Ein aufgetretener Fehler wurde behoben.
	0x4316	Vorsicht	Softwarefehler	Wi-Fi-Modul neu gestartet	Ein aufgetretener Fehler wurde behoben.
	0x1401	Warnung	Hardwarefehler	Fehler des Wi-Fi-Moduls	Ein aufgetretener Fehler wurde behoben.
	0x1402	Warnung	Hardwarefehler	Fehler des Mikrocontrollers der Motorsteuerung	Ein aufgetretener Fehler wurde behoben.
	0x1403	Warnung	Hardwarefehler	Fehler des Mikrocontrollers der Drehmomentberechnung	Ein aufgetretener Fehler wurde behoben.
	0x1404	Warnung	Hardwarefehler	Fehler des externen Flashlaufwerks	Ein aufgetretener Fehler wurde behoben.
	0x1405	Warnung	Hardwarefehler	RTC-Fehler	Ein aufgetretener Fehler wurde behoben.
	0x1406	Warnung	Hardwarefehler	Fehler der Schaltkreiserkennung	Ein aufgetretener Fehler wurde behoben.
	0x1407	Warnung	Hardwarefehler	Kein verbleibender Auslagerungsbereich	Ein aufgetretener Fehler wurde behoben.
	0x1408	Warnung	Hardwarefehler	Beschädigter Parameterbereich	Ein aufgetretener Fehler wurde behoben.

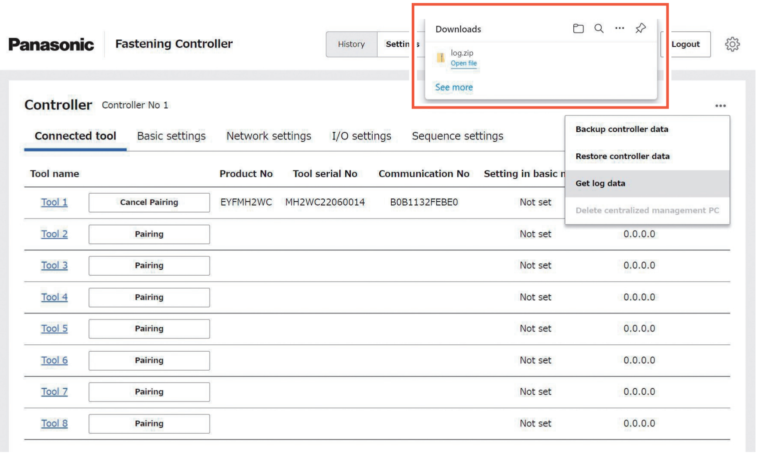
BETRIEBSPROTOKOLLDATEN

Klicken Sie auf der Startseite (der ersten Seite des Einstellungsbildschirms) oben auf [Settings].
Klicken Sie auf ··· (die Controlleroptionstaste) und dann auf [Get log data].
Sie können die Betriebsprotokolle des Controllers abrufen.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

▼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log.zip
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Panasonic
Fastening Controller
History
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Logout
Controller
Controller No 1
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Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic m	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

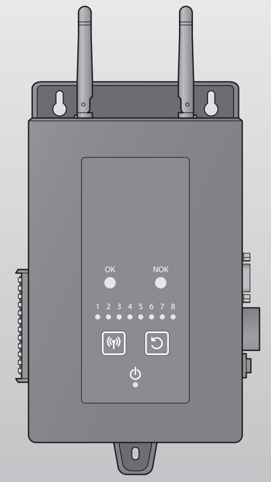
Panasonic®

Instructions d’utilisation

Contrôleur de montage

Nº de modèle :

EYFRW2


OK
NOK
1 2 3 4 5 6 7 8

IMPORTANT

Veuillez lire et respecter les consignes de sécurité et les instructions d’utilisation avant d’utiliser ce produit.
N’utilisez pas la fonction sans fil en dehors du pays où vous avez acheté le produit.
Cela pourrait enfreindre les lois et réglementations locales.

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MISE EN ROUTE

Environnement d’exploitation

Vous devez utiliser un navigateur web pour configurer le contrôleur.
Préparez un ordinateur répondant aux exigences suivantes.

Environnement d’exploitation

Système d’exploitation compatible	Windows 10 ou version ultérieure (supportant l’un des navigateurs Web ci-dessous)
Navigateur Web	Microsoft Edge version 102 ou ultérieure ou Google Chrome version 102 ou ultérieure

- Certains ordinateurs ne sont pas disponibles même s’ils sont conformes à l’environnement d’exploitation.
- Selon l’environnement d’utilisation, etc. de votre PC, les descriptions et les écrans de ces Instructions d’utilisation peuvent être différents des descriptions et écrans réels. Soyez avertis.
- Le contenu de ces Instructions d’utilisation peut faire l’objet de modifications sans préavis.
- Toute reproduction totale ou partielle du contenu de ces Instructions d’utilisation est interdite sans autorisation.
- Les figures dans ces Instructions d’utilisation sont à titre de référence uniquement.

[Remarque]
Maintenez toujours le micrologiciel à jour.
Vous pouvez trouver les dernières données du micrologiciel sur le site Web suivant qui donne accès aux Instructions d’utilisation.
Pour savoir comment mettre à jour le micrologiciel, consultez « Mise à jour du micrologiciel ». **Se reporter à P81**

Comment accéder aux Instructions d’utilisation

La version actuelle des Instructions d’utilisation du contrôleur et d’autres ressources peuvent être téléchargées à partir du site Web ci-dessous.

https://www.panasonic-powertools.eu/fr/construction/documents.htm

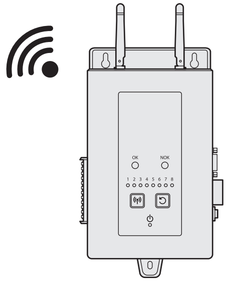
Marque commerciale

- Microsoft et Windows sont des marques déposées ou des marques de Microsoft Corporation aux États-Unis et/ou dans d’autres pays.
- Les captures d’écran sont utilisées conformément aux directives de Microsoft Corporation.
- Wi-Fi et le logo Wi-Fi sont des marques déposées de Wi-Fi Alliance.

Tous les autres noms y compris les noms de sociétés et les noms de produits dans ces Instructions d’utilisation sont des marques commerciales ou des marques déposées de leurs sociétés respectives.
™ et ® peuvent être omis dans ces Instructions d’utilisation.

Utilisation prévue

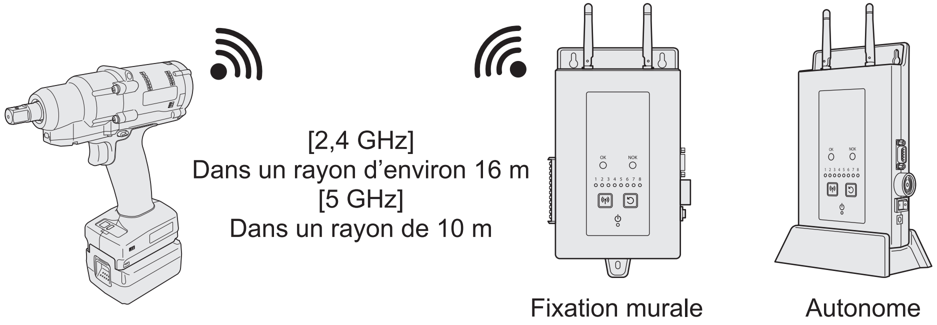
Ce produit est un contrôleur qui communique sans fil avec les outils.
Il peut recevoir des données d’historique de fixation des outils, effectuer les réglages des outils et contrôler la quantité à fixer.

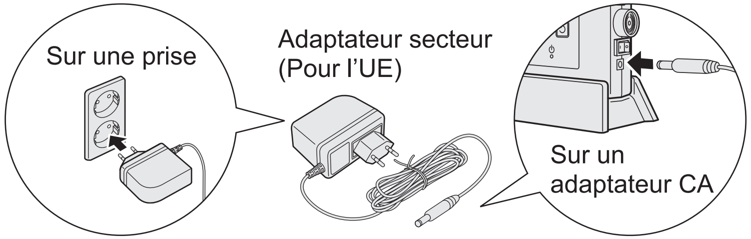


01	Raccorder jusqu’à 8 outils
02	Prendre en charge les bandes 2,4 GHz et 5 GHz
03	Prise en charge d’une fonction de contrôle de la fixation et d’une fonction de sauvegarde de l’historique

Configuration

Installez le contrôleur dans une plage où la communication sans fil avec les outils est possible.
Mettez l’appareil sous tension via une prise secteur et raccordez-le à des appareils externes via des interfaces de communication si nécessaire.





- Le contrôleur contient une pile bouton pour maintenir la fonction d’horloge (RTC) en marche.
  Il est recommandé de garder l’appareil sous tension pour réduire la consommation de la pile bouton interne.
- La couverture sans fil peut changer en fonction de l’environnement.

PRÉCAUTIONS DE SÉCURITÉ Respectez toujours les instructions

Vous trouverez ci-dessous les instructions que vous devez toujours respecter afin d'éviter les dommages corporels et matériels.

■ **La gravité des dommages causés par une utilisation incorrecte est présentée dans la section suivante.**

⚠ AVERTISSEMENT	Cela pourrait entraîner des blessures graves, voire mortelles.
⚠ MISE EN GARDE	Risque de blessures légères ou de dommages matériels.

■ **Le contenu qui doit être observé est présenté avec les symboles suivants. (Voici quelques exemples)**

🛇	Vous ne DEVEZ PAS effectuer l'action.
❗	Vous DEVEZ effectuer l'action.

⚠ AVERTISSEMENT

Obligatoire

- **Assurez-vous qu'il n'y a pas d'objets enfouis tels que les conduits, les conduites d'eau et les conduites de gaz dans le lieu d'installation.**
  Tout contact avec des objets enfouis de ce type peut provoquer une électrocution ou une fuite électrique ou de gaz.
- **Insérez la prise d'alimentation à fond.**
  Une insertion incomplète peut provoquer une électrocution ou une génération de chaleur, entraînant un incendie.
  N'utilisez pas une prise endommagée ou une prise de courant mal fixée.
- **Dépoussiérez la prise d'alimentation régulièrement.**
  La poussière accumulée sur la prise peut absorber l'humidité et entraîner une mauvaise isolation et provoquer un incendie. Débranchez la prise d'alimentation et essuyez-la avec un chiffon sec.
- **Utilisez uniquement le cordon d'alimentation spécifié.**
  L'utilisation de toute autre fiche peut provoquer une électrocution, un court-circuit ou un incendie.
- **Maintenez le lieu de travail suffisamment lumineux.**
  Une mauvaise visibilité dans un lieu de travail sombre peut entraîner un accident ou des blessures.

⚠ AVERTISSEMENT

Interdit

- **N'utilisez pas de prise ou de dispositif de câblage excédant la valeur nominale. Utilisez une tension de 100 V-240 V CA uniquement.**
  Tout dépassement de la valeur nominale en raison d'une prise surchargée peut provoquer une génération de chaleur et par conséquent un risque d'incendie.
- **N'endommagez pas le cordon d'alimentation ou la prise. (Évitez d'endommager, de casser, de modifier, de placer à proximité d'une source de chaleur, de plier en forçant, de tordre, de tirer, de placer une charge lourde dessus, de pincer ou de coincer)**
  L'utilisation d'un cordon ou d'une prise endommagé peut entraîner une électrocution, un court-circuit ou un incendie.
  Vérifiez périodiquement le cordon et la fiche et s'ils sont endommagés, consultez votre revendeur.
- **N'utilisez pas le contrôleur avec une alimentation CC, un générateur de moteur ou un transformateur.**
- **N'utilisez pas le contrôleur dans un endroit contenant du liquide ou du gaz inflammable.**
  Cela pourrait causer une génération de chaleur, de la fumée, un incendie ou une explosion.
- **N'installez pas le contrôleur sur une paroi de mortier.**
  Le visser sur une paroi de mortier peut générer de la chaleur à l'intérieur de la grille, ce qui peut provoquer un incendie en cas de fuite électrique.
- **Débranchez la prise d'alimentation entre les utilisations.**
  Si la prise reste branchée, cela peut provoquer une mauvaise isolation et entraîner une électrocution ou un incendie en cas de fuite électrique.

Aucun démontage

- **Ne modifiez pas le contrôleur. Ne démontez pas et ne réparez pas le contrôleur.**
  Cela pourrait provoquer un incendie, une électrocution ou des blessures. Pour les réparations, consultez votre revendeur ou notre centre de service à la clientèle.

Maintenir au sec

Évitez l'utilisation suivante d'outils chargés.

- **Ne les utilisez pas et ne les laissez pas exposés à la pluie ou à l'humidité.**
- **Ne les utilisez pas sous l'eau.**
  Cela pourrait provoquer une formation de fumée, un incendie ou une explosion.

Pas de main humide

- **Ne branchez pas et ne débranchez pas la prise d'alimentation sur/de la prise de courant avec la main mouillée.**
  Cela pourrait provoquer une électrocution.

PRÉCAUTIONS DE SÉCURITÉ Respectez toujours les instructions

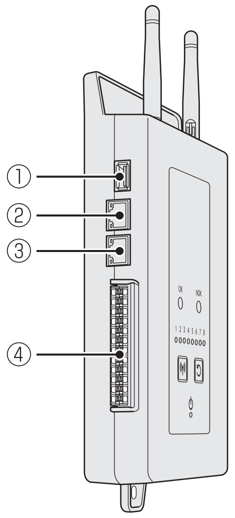
⚠ MISE EN GARDE

Interdit	● **N'utilisez pas le contrôleur à d'autres fins que celles prévues.** Cela pourrait provoquer des blessures.
	● **Ne placez pas le contrôleur dans un endroit accessible par un enfant.** Cela pourrait entraîner un accident ou des problèmes.
	● **N'utilisez pas le contrôleur s'il présente des traces d'huile ou tout autre corps étranger fixé dessus.** Ces traces d'huile ou autres corps étrangers pourraient pénétrer à l'intérieur, provoquant une génération de chaleur, un incendie ou une explosion.
	● **N'entreposez pas l'unité principale dans un endroit où la température pourrait s'élever jusqu'à 45 °C ou plus.** Cela pourrait provoquer un fonctionnement anormal.
	● **Ne travaillez pas dans une position inhabituelle.** Sinon, vous risquez de tomber et de vous blesser. Tenez-vous toujours sur un sol stable et gardez un bon équilibre.
	● **N'utilisez pas le contrôleur lorsque vous êtes fatigué.** Cela pourrait provoquer un accident ou des blessures.
	● **Ne laissez pas un enfant ou toute autre personne qui n'est pas un opérateur s'approcher du lieu de travail ou toucher le contrôleur.** Cela pourrait provoquer des blessures.
	● **N'utilisez pas le contrôleur avec des appareils incompatibles.** Cela pourrait provoquer un dysfonctionnement et entraîner un accident.
Obligatoire	● **Pour installer le contrôleur sur un mur, fixez-le avec des vis pour l'empêcher de tomber.** Vous risquez d'être blessé s'il tombe.
	● **Pour débrancher la prise d'alimentation, tenez-la toujours sans tirer sur le cordon.** Si vous tirez sur le cordon, cela peut provoquer une électrocution ou un court-circuit.
	● **Avant l'utilisation, vérifiez si le contrôleur et d'autres pièces ne sont pas endommagés et vérifiez si leur fonctionnement est normal.** Sinon, cela peut entraîner une rupture et des blessures.
	● **Gardez le lieu de travail propre.** Un lieu de travail ou un plan de travail désordonné peut entraîner un accident.
	● **Réfléchissez bien aux méthodes de travail et de manipulation, faites attention à l'environnement environnant et faites preuve de bon sens pendant le travail.** Le non-respect de cette consigne pourrait provoquer un accident ou des blessures.

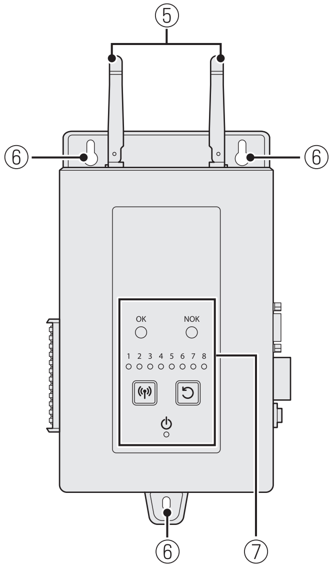
DESCRIPTION DES FONCTIONS

Corps principal

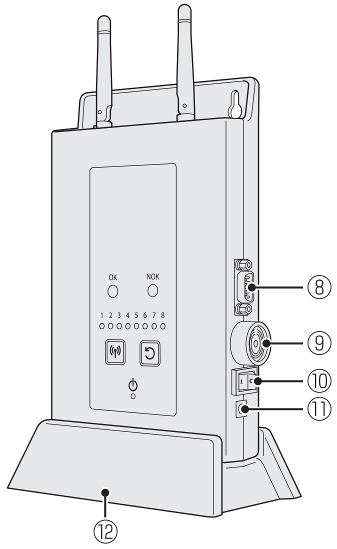
■ Côté gauche



■ Côté avant

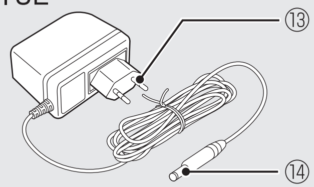


■ Côté droit

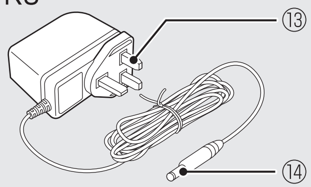


■ Adaptateur secteur

Pour l'UE



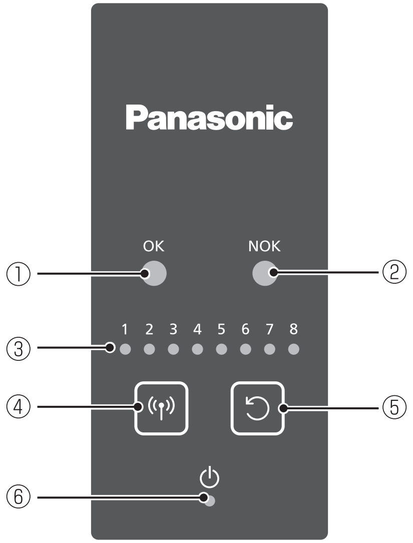
Pour le RU



①	Port USB (Type A)	⑧	IOIOI Port série (RS232C)
②	Port Ethernet (pour l'entretien)	⑨	Alarme sonore
③	Port Ethernet (pour réseau)	⑩	Interrupteur d'alimentation
④	1～24 Port E/S	⑪	Prise de l'adaptateur secteur
⑤	Antenne en diversité	⑫	Socle du contrôleur
⑥	Trou de fixation au mur	⑬	Prise d'alimentation
⑦	Boîtier de commande	⑭	Connecteur d'alimentation

DESCRIPTION DES FONCTIONS (suite)

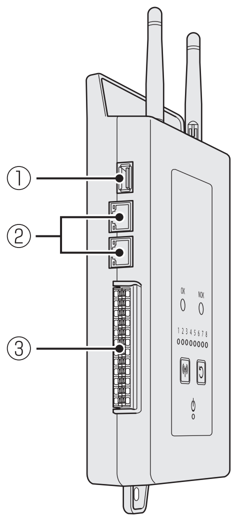
■ Boîtier de commande

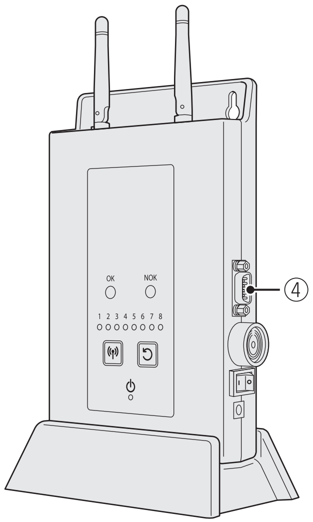


①	Témoin de fixation OK Vert continu : Un signal de fixation terminée a été reçu. Désactivé : Un signal de fixation terminée n'est pas encore reçu.
②	Témoin de fixation NOK Rouge continu : Un signal d'erreur de fixation a été reçu. Désactivé : Un signal d'erreur de fixation n'est pas encore reçu.
③	Témoin de communication (N° 1 à N° 8) Bleu continu : Un outil a été enregistré. Bleu clignotant : Un outil est en cours d'enregistrement ou hors de portée. Désactivé : Un outil n'est pas encore enregistré.

④	Touche d'appariement
⑤	Touche de réinitialisation
⑥	Témoin d'alimentation Jaune continu : Mise sous tension (mode de réception) Éteint : Mise hors tension Clignote en jaune : Erreur

■ Interface de communication





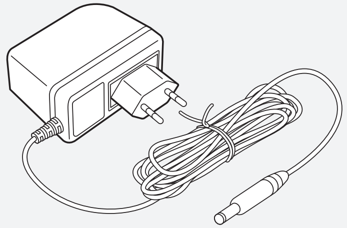
Interface		Détails
①	USB	Utilisez ce port pour connecter une clé USB afin de mettre à jour le micrologiciel. • USB2.0 Type-A × 1 • Connectez directement une clé USB (sans extension)
②	Ethernet (pour la maintenance et le réseau)	Utilisez ce port pour vous connecter à un PC de configuration ou à un système hôte. • 10Base-T/100Base-TX × 2 • Longueur de câble : moins de 30 m * Connectez le port Ethernet (pour la maintenance) directement à un PC de configuration. (Ne pas utiliser de concentrateur)
③	Borne d'entrée/sortie (E/S)	Utilisez ce port pour vous connecter à un périphérique externe (par exemple un API). • 8 entrées et 8 sorties • Longueur de câble : 10 m ou moins • Tension nominale de la borne d'entrée : 24 V CC, 50 mA • Tension nominale de la borne de sortie : 30 V CC, 3 A
④	Port série (RS232C)	Utilisez ce port pour vous connecter à un périphérique externe (par exemple un API). • RS232C × 1 • Longueur de câble : 10 m ou moins

DESCRIPTION DES FONCTIONS (suite)

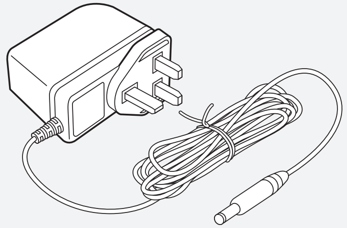
Accessoire

■ Adaptateur secteur × 1

Pour l’UE
(WEYFRW1K7751)

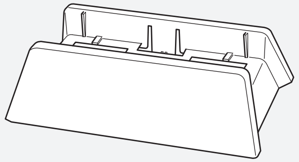


Pour le RU
(WEYFRW1K7851)



■ Socle du contrôleur × 1

(EYFRW1F7001)



Consommables

■ **Pile bouton** (CR2450) × 1

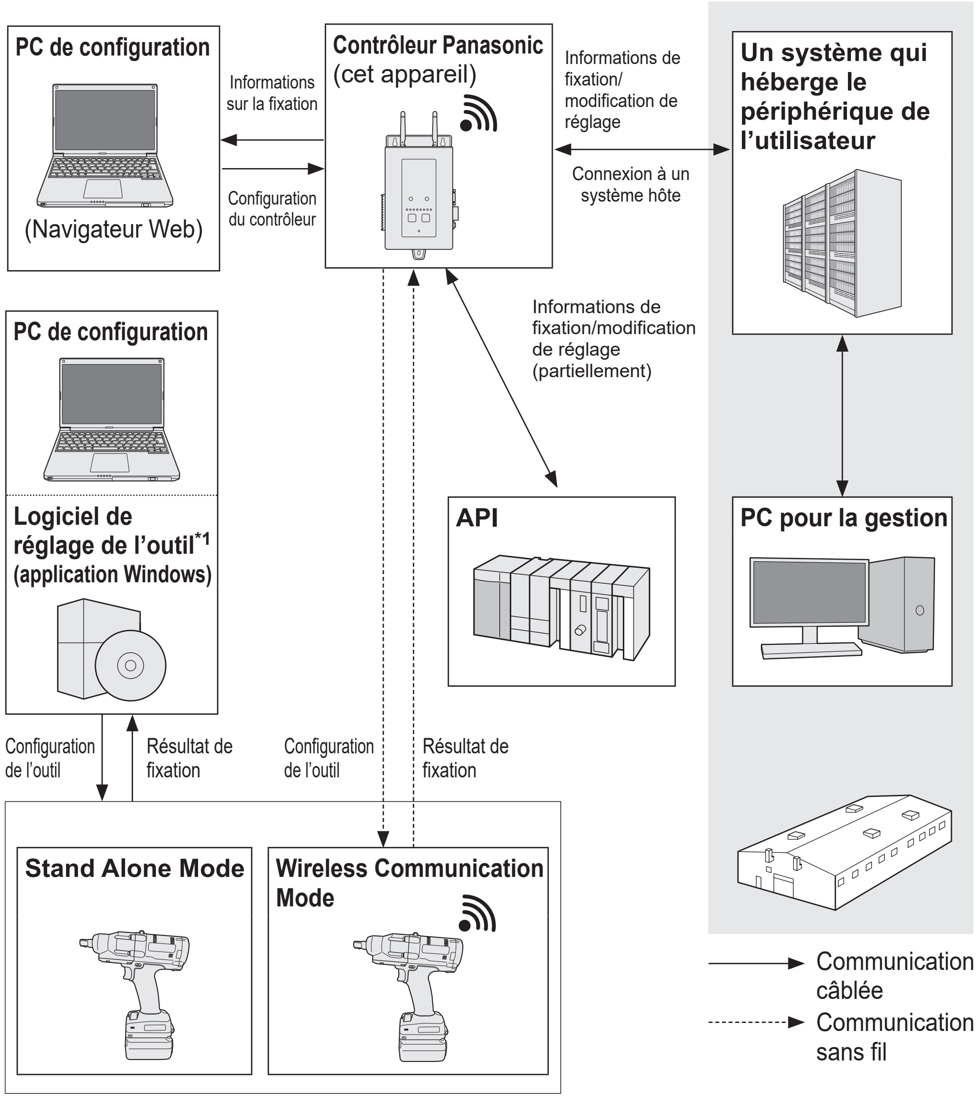
Pour savoir comment remplacer, voir « Remplacement de la pile bouton ».

Se reporter à P82

Panasonic
CR2450
3V

CONFIGURATION DU SYSTÈME

Configuration du système


PC de configuration
(Navigateur Web)
Informations sur la fixation
Configuration du contrôleur
Contrôleur Panasonic
(cet appareil)
Informations de fixation/ modification de réglage
Connexion à un système hôte
Un système qui héberge le périphérique de l’utilisateur
PC de configuration
Logiciel de réglage de l’outil*1
(application Windows)
Informations de fixation/modification de réglage (partiellement)
API
PC pour la gestion
Configuration de l’outil
Résultat de fixation
Configuration de l’outil
Résultat de fixation
Stand Alone Mode
Wireless Communication Mode
Communication câblée
Communication sans fil

*1 Le « logiciel de réglage de l’outil » peut être téléchargé depuis notre site Web.

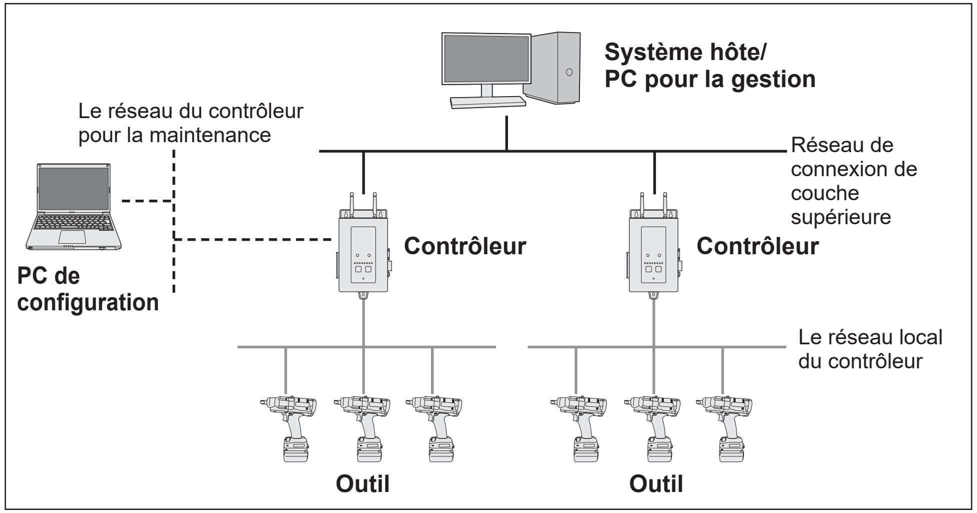
Se reporter à P2

Configurations de réseau typiques

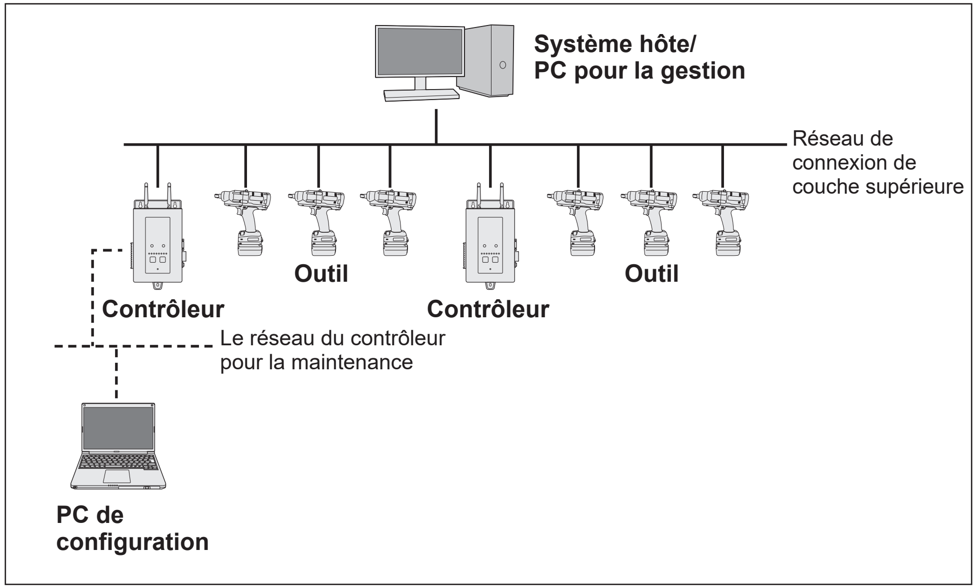
Le contrôleur peut être utilisé dans les 3 configurations ci-dessous.

■ Sans gérer les adresses IP de l’outil

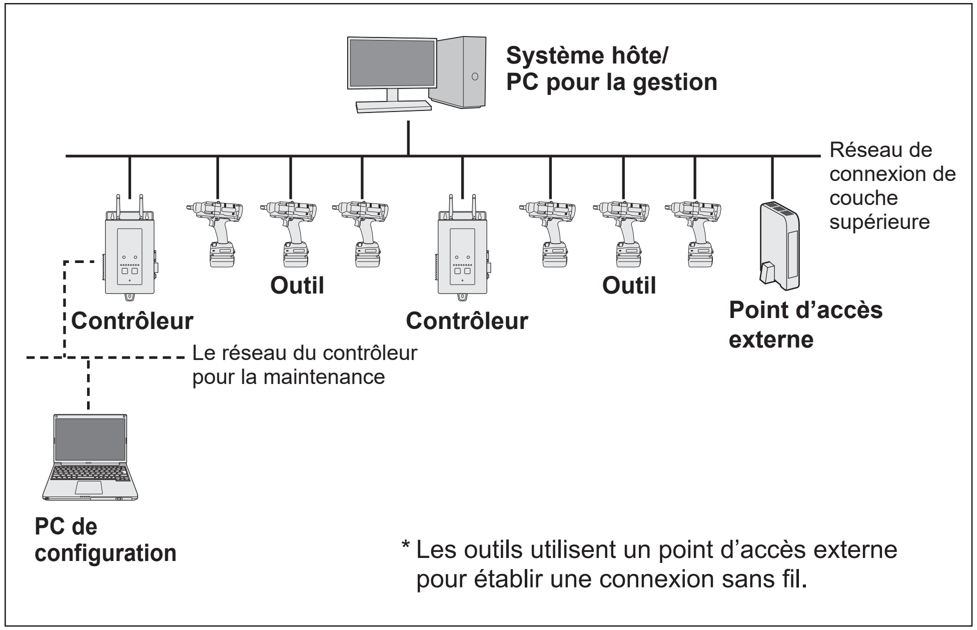
*** Attribution automatique (utilisation du point d’accès intégré dans le contrôleur)**


Système hôte/
PC pour la gestion
Le réseau du contrôleur pour la maintenance
Réseau de connexion de couche supérieure
Contrôleur
Contrôleur
PC de configuration
Le réseau local du contrôleur
Outil
Outil

■ Gestion des adresses IP de l’outil (en utilisant le point d’accès intégré dans le contrôleur)


Système hôte/
PC pour la gestion
Réseau de connexion de couche supérieure
Outil
Outil
Contrôleur
Contrôleur
Le réseau du contrôleur pour la maintenance
PC de configuration

■ Reconnaissance des adresses IPde l’outil (en utilisant des points d’accès externes)


Système hôte/
PC pour la gestion
Réseau de connexion de couche supérieure
Outil
Outil
Contrôleur
Contrôleur
Point d’accès externe
Le réseau du contrôleur pour la maintenance
PC de configuration

* Les outils utilisent un point d’accès externe pour établir une connexion sans fil.

* Utilisez le système au sein de votre réseau local (sans connexion Internet).

* Assurez-vous de vérifier le réglage de l’adresse IP pour le réseau du contrôleur avant de commencer à l’utiliser. (Modifiez la valeur par défaut si nécessaire)

OUTIL CONNECTABLE/PRÉCAUTIONS À PRENDRE POUR L'INSTALLATION

Liste des modèles d'outil applicables

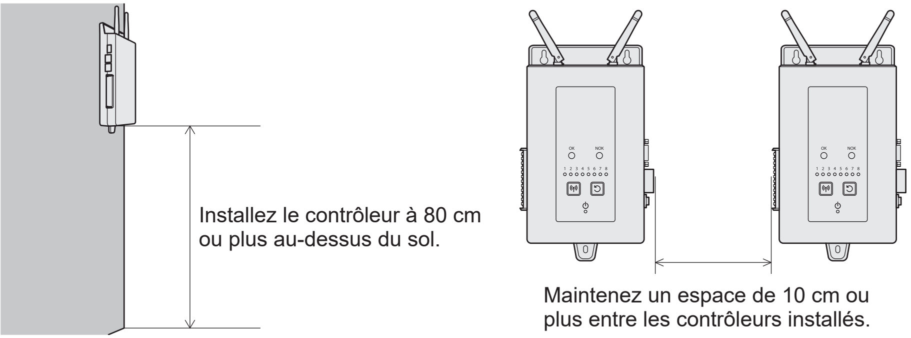
Modèles pouvant être enregistrés	EYFMH1WC, EYFMH2WC EYFMH1WP, EYFMH2WP

Précautions pour l'installation

Installez le contrôleur à 80 cm ou plus au-dessus du sol. Maintenez un espace de 10 cm ou plus entre les contrôleurs installés. (une distance de 1 m ou plus est recommandée)
Dégagez toute obstruction aux antennes du contrôleur installé.
Le contrôleur a 2 antennes en diversité. Dégagez toute obstruction des deux antennes.

⚠ MISE EN GARDE

Pour garantir une installation en toute sécurité, utilisez des vis à bois d'un diamètre nominal compris entre 3,5 et 4,1 mm.

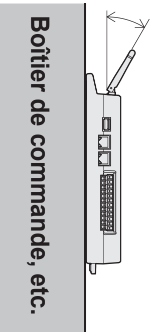


Installez le contrôleur à 80 cm ou plus au-dessus du sol.

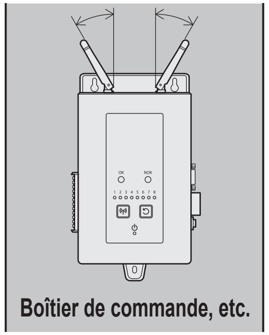
Maintenez un espace de 10 cm ou plus entre les contrôleurs installés.

Réglez l'inclinaison des antennes si la communication est instable.
* En particulier pour le contrôleur installé sur un panneau métallique, le réglage de l'inclinaison des antennes peut améliorer la stabilité de la communication.

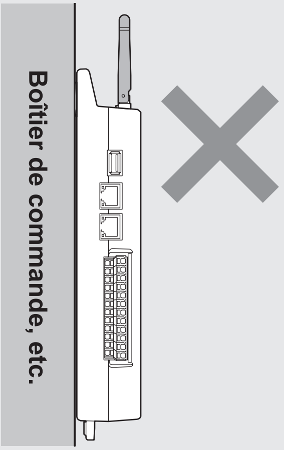
Inclinez les antennes de 30º à 45º par rapport au mur.



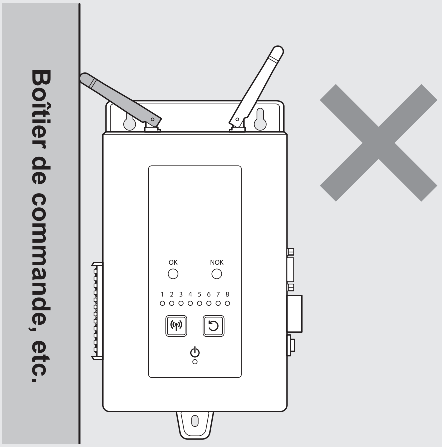
Inclinez les antennes de 30º à 45º vers l'extérieur, vue de l'avant.



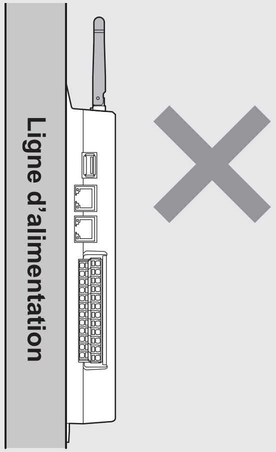
■ Évitez l'installation suivante.



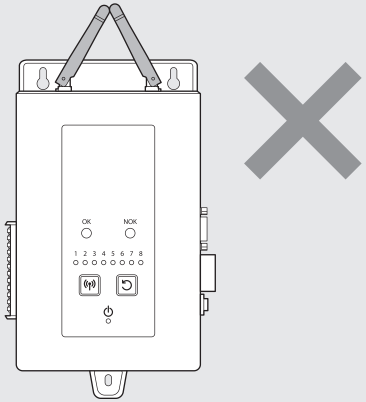
L'antenne est en parallèle avec le boîtier de commande (panneau métallique) à l'arrière.



L'antenne est en contact avec le boîtier de commande (panneau métallique).



Le contrôleur est installé très près d'une ligne d'alimentation.

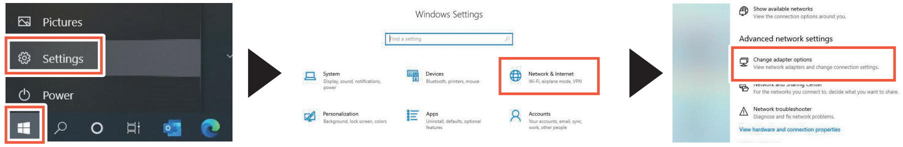


Les antennes sont en contact l'une avec l'autre.

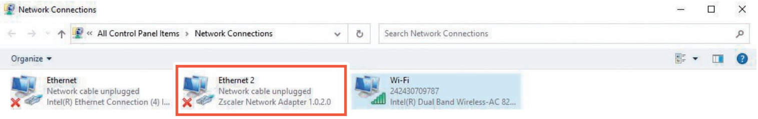
Réglages réseau sur le PC de configuration

Configurez les paramètres réseau sur le PC de configuration comme indiqué ci-dessous lorsque vous le connectez ainsi que le contrôleur pour la première fois.

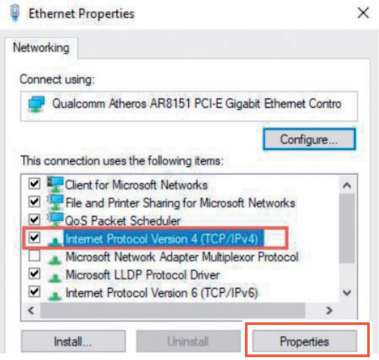
1 Cliquez sur ⊞ en bas à gauche de l’écran et cliquez sur ⚙ (Settings) – [Network & Internet] - [Change adapter options].


Pictures
Settings
Power
Windows Settings
Find a setting
System
Display, sound, notifications, power
Devices
Bluetooth, printers, mouse
Network & Internet
Wi-Fi, airplane mode, VPN
Personalization
Background, lock screen, colors
Apps
Uninstall, defaults, optional features
Accounts
Your accounts, email, sync, work, other people
Show available networks
View the connection options around you.
Advanced network settings
Change adapter options
View network adapters and change connection settings.
Network and Sharing Center
For the networks you connect to, decide what you want to share.
Network troubleshooter
Diagnose and fix network problems.
View hardware and connection properties

2 Cliquez avec le bouton droit sur l’appareil à connecter et cliquez sur [Properties].


Network Connections
« All Control Panel Items › Network Connections
Search Network Connections
Organize ▾
Ethernet
Network cable unplugged
Intel(R) Ethernet Connection (4) I...
Ethernet 2
Network cable unplugged
Zscaler Network Adapter 1.0.2.0
Wi-Fi
242430709787
Intel(R) Dual Band Wireless-AC 82...

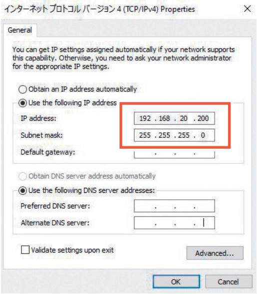
3 Sélectionnez « Internet Protocol Version 4 » et cliquez sur [Properties].


Ethernet Properties
Networking
Configure...
Install...
Uninstall
Properties

Connect using:
Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Contro

This connection uses the following items:
- ☑ Client for Microsoft Networks
- ☑ File and Printer Sharing for Microsoft Networks
- ☑ QoS Packet Scheduler
- ☑ Internet Protocol Version 4 (TCP/IPv4)
- ☐ Microsoft Network Adapter Multiplexor Protocol
- ☑ Microsoft LLDP Protocol Driver
- ☑ Internet Protocol Version 6 (TCP/IPv6)

4 Réglez « IP address » et « Subnet mask » comme ci-dessous.


インターネット プロトコル バージョン 4 (TCP/IPv4) Properties
General
Advanced...
OK
Cancel

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address
IP address: 192 . 168 . 20 . 200
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .
○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server: . . .
Alternate DNS server: . . .
☐ Validate settings upon exit

IP address	192 . 168 . 20 . 200
Subnet mask	255 . 255 . 255 . 0

* Si vous avez modifié l’adresse IP du contrôleur après la connexion initiale, activez la connexion en rétablissant les paramètres réseau (adresse IP et masque de sous-réseau) sur le PC de configuration. À ce stade, configurez l’adresse IP de sorte que le contrôleur et le PC de configuration appartiennent au même réseau.

* Notez et conservez les paramètres réseau du PC de configuration (adresse IP et masque de sous-réseau) avant de les modifier.

* Il est recommandé de laisser la passerelle par défaut non spécifiée (vide).

Affichage de l’écran de configuration

Pour configurer le contrôleur, accédez à travers un navigateur Web.
Affichez l’écran de configuration du contrôleur comme ci-dessous.

Lorsque vous utilisez le contrôleur pour la première fois, retirez le film de protection de la pile bouton.

1 Activez le contrôleur.

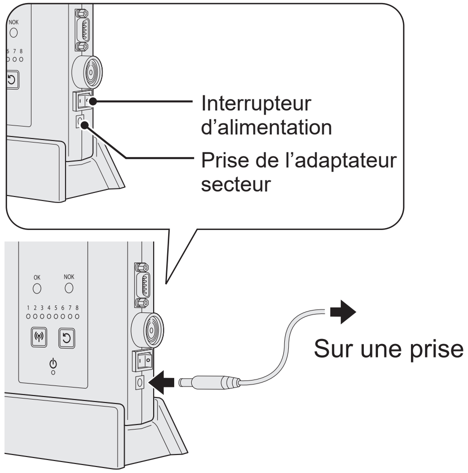
① Connectez l’adaptateur AC fourni au contrôleur et branchez la fiche d’alimentation sur une prise de courant.

② Mettez l’interrupteur d’alimentation du contrôleur sur Marche.

* Le démarrage prend quelques dizaines de secondes.

* Au démarrage, le témoin de fixation OK, le témoin de fixation NOK, et le témoin de communication (N° 1 à N° 8) clignotent simultanément.

* Ne connectez pas de câbles LAN.

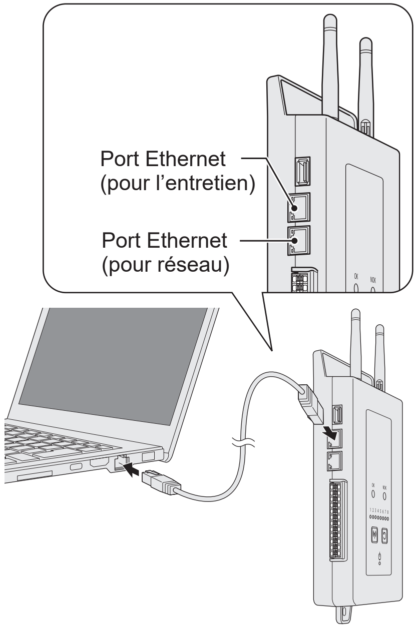

Interrupteur d’alimentation
Prise de l’adaptateur secteur
Sur une prise
OK
NOK
1 2 3 4 5 6 7 8

2 Connectez le contrôleur au PC de configuration à l’aide d’un câble LAN.

① Connectez un câble LAN au port Ethernet du contrôleur.

* Le contrôleur possède 2 ports Ethernet : un pour la maintenance et un autre pour le réseau.
Utilisez celui réservé à la maintenance pour la première connexion.

② Connectez au PC de configuration avec le câble LAN.


Port Ethernet (pour l’entretien)
Port Ethernet (pour réseau)

3 Démarrez un navigateur Web sur le PC de configuration et accédez au contrôleur.

① Démarrez un navigateur web sur le PC de configuration. (Microsoft Edge est recommandé)

② Entrez l’adresse IP du contrôleur dans la barre d’adresse du navigateur web.

* L’adresse IP par défaut pour le port Ethernet (pour la maintenance) est « 192.168.20.10 ».

> Dans la barre d’adresse du navigateur Web, entrez « http://192.168.20.10/controller » pour accéder.
> * La saisie de « 192.168.20.10/controller » uniquement autorise aussi l’accès.

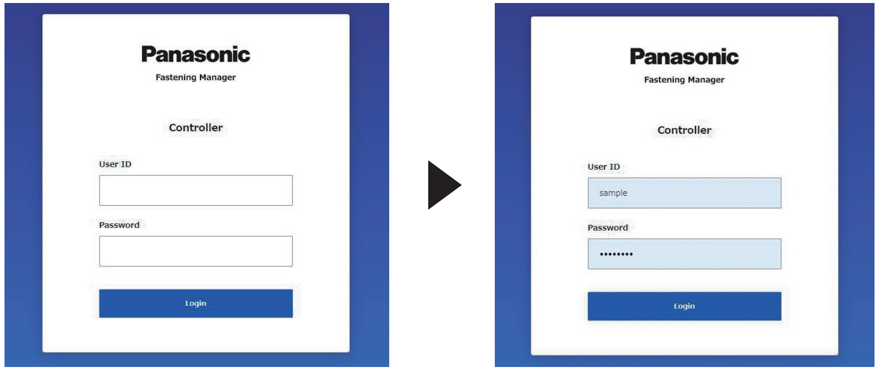
* Pour savoir comment accéder via le port Ethernet (pour le réseau), voir « Connexion via le réseau ». **Se reporter à P21**

* L’adresse IP doit également être réglée sur le PC de configuration.

③ Dans l’écran de connexion affiché, saisissez l’ID utilisateur et le mot de passe.

* L’ID utilisateur et le mot de passe pour la connexion initiale sont indiqués ci-dessous.

④ La page du haut (la page initiale de l’écran de configuration) s’affiche.



ID utilisateur et mot de passe pour la connexion initiale

Connectez-vous avec l’ID utilisateur et le mot de passe ci-dessous.

■ **ID utilisateur:** **root**

■ **Mot de passe:** **abcABC123**

* Le type de compte pour la connexion initiale est « default ». Pour les types de compte, voir « Types de compte (autorités) ». **Se reporter à P19**

* Seule la création de compte est possible lorsque vous vous connectez avec l’ID utilisateur et le mot de passe ci-dessus. Créez un nouveau compte avant de commencer l’utilisation.

* Pour des raisons de sécurité, le changement du mot de passe ci-dessus est recommandé après la connexion initiale.

Types de compte (autorités)

Voici les types de compte. Utilisez-les conformément aux applications.

Type de compte	Fonction
Par défaut	• Pour la connexion initiale. **Se reporter à P18** Ajout ou modification d’un compte utilisateur.
Administrator	• Affichage de l’historique de fixation. • Configuration du contrôleur. • Configuration des outils. • Ajout ou modification d’un compte utilisateur. * Créez au moins un compte administrateur.
General	• Affichage de l’historique des fixations (y compris l’affichage du moniteur de travail).

Jusqu’à 10 comptes peuvent être enregistrés.
Ainsi, plusieurs opérateurs peuvent se connecter simultanément.

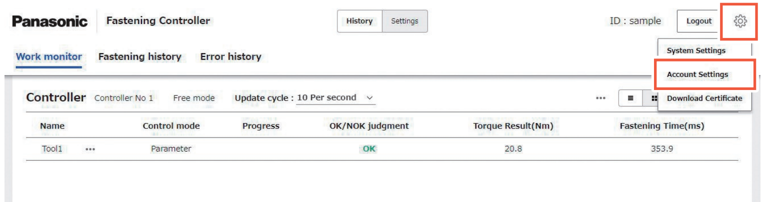
* Un seul compte peut se connecter en tant qu’administrateur en même temps. Lorsque plusieurs accès sont tentés, la dernière session est prioritaire.

Création d’un compte utilisateur

Créez un nouveau compte avant de commencer l’utilisation.

1 Dans la page supérieure (la page initiale de l’écran de configuration), cliquez sur la touche d’option dans le coin supérieur droit et sélectionnez « Account Settings ».

L’écran « Account Settings » s’affiche.



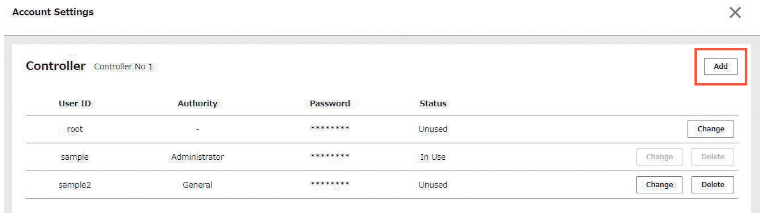
Controller Controller No 1 Free mode Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 Dans l’écran « Account settings », cliquez sur [Add].

L’écran « Add account » s’affiche.

- Cliquez sur [Change] pour changer le compte et sur [Delete] pour supprimer le compte.

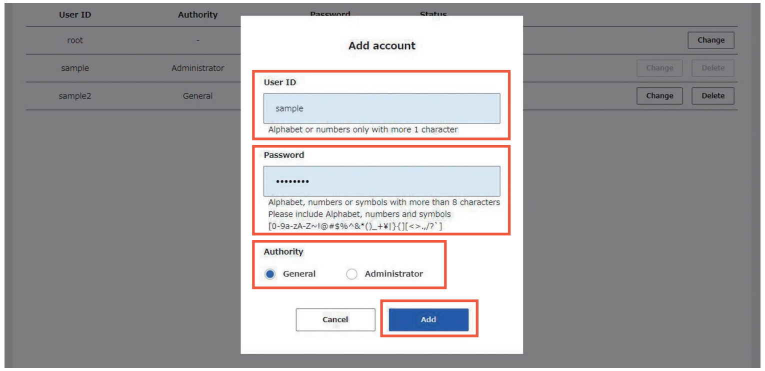


Controller Controller No 1

User ID	Authority	Password	Status	
root	-	********	Unused	Change
sample	Administrator	********	In Use	Change Delete
sample2	General	********	Unused	Change Delete

3 Entrez « User ID » et « Password », sélectionnez « Authority » et cliquez sur [Add].

* Créez un compte administrateur pour configurer les outils.
* Pour un mot de passe, utilisez toujours une combinaison de 3 types de caractères ou parmi les majuscules, minuscules, chiffres et symboles.



User ID
Authority
Password
Status
root
-
Change
sample
Administrator
Change
Delete
sample2
General
Change
Delete

Add account

User ID: sample

Alphabet or numbers only with more 1 character

Password: ••••••••

Alphabet, numbers or symbols with more than 8 characters
Please include Alphabet, numbers and symbols
[0-9a-zA-Z~!@#$%^&*()_+¥|}{][<>.,/?`]

Authority: ● General ○ Administrator

Cancel
Add

[Référence] Si vous avez perdu l’ID utilisateur ou le mot de passe

■ Compte général

[Méthode 1] Connectez-vous en tant qu’administrateur et modifiez le compte concerné.
* Un utilisateur général ne peut pas modifier l’ID utilisateur et le mot de passe et doit demander à un administrateur de les modifier.

[Méthode 2] Connectez-vous avec un nouveau compte administrateur et modifiez le compte concerné.
* Connectez-vous avec l’ID utilisateur et le mot de passe pour la connexion initiale et créez un nouveau compte administrateur.

Se reporter à P18

■ Compte Administrateur

A) Lorsque plusieurs comptes administrateur ont été créés

[Méthode 1] Connectez-vous avec un autre compte administrateur et modifiez le compte concerné.

[Méthode 2] Connectez-vous avec un nouveau compte administrateur et modifiez le compte concerné.
* Connectez-vous avec l’ID utilisateur et le mot de passe pour la connexion initiale et créez un nouveau compte administrateur.

Se reporter à P18

[Méthode 3] Initialisez les paramètres si vous avez perdu les identifiants et les mots de passe de tous les comptes administrateur. Se reporter à P79

B) Lorsqu’un seul compte administrateur a été créé

[Méthode 1] Connectez-vous avec un nouveau compte administrateur et modifiez le compte concerné.
* Connectez-vous avec l’ID utilisateur et le mot de passe pour la connexion initiale et créez un nouveau compte administrateur.

Se reporter à P18

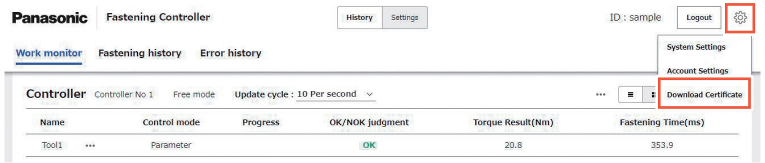
[Méthode 2] Initialisez les paramètres si vous avez perdu les identifiants et les mots de passe de tous les comptes administrateur. Se reporter à P79

Obtention d’un certificat

Un certificat est nécessaire pour accéder au contrôleur via le port Ethernet (pour le réseau).
Vous pouvez obtenir un certificat comme ci-dessous.

1 Dans la page supérieure (la page initiale de l’écran de configuration), cliquez sur la touche d’option dans le coin supérieur droit et sélectionnez « Download Certificate ».

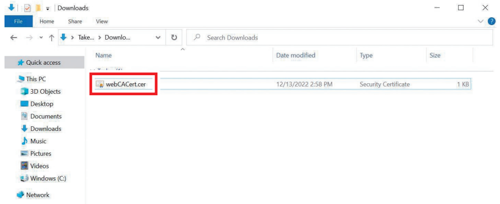
Une référence de certificat est téléchargée sur le PC de configuration.



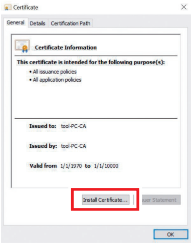
Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
System Settings
Account Settings
Download Certificate
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
OK
20.8
353.9

2 Installez le certificat dans le « PC de configuration utilisé pour accéder au contrôleur via le réseau ».

① Double-cliquez sur la référence du certificat téléchargé et sélectionnez « Install certificate ».



Downloads
File
Home
Share
View
Search Downloads
Quick access
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
Name
Date modified
Type
Size
webCACert.cer
12/13/2022 2:58 PM
Security Certificate
1 KB

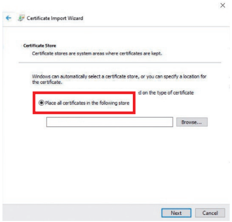


Certificate
General
Details
Certification Path
Certificate Information
Install Certificate...
Issuer Statement
OK

This certificate is intended for the following purpose(s):
- All issuance policies
- All application policies

Issued to: tool-PC-CA
Issued by: tool-PC-CA
Valid from 1/1/1970 to 1/1/10000

② Sélectionnez « Place all certificates in the following store» puis sélectionnez « Trusted Root Certification Authorities ».

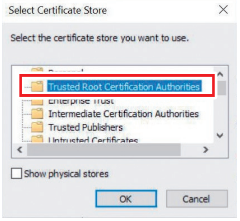


Certificate Import Wizard
Certificate Store
Browse...
Next
Cancel

Certificate stores are system areas where certificates are kept.

Windows can automatically select a certificate store, or you can specify a location for the certificate.

● Place all certificates in the following store



Select Certificate Store
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
OK
Cancel

Select the certificate store you want to use.

☐ Show physical stores

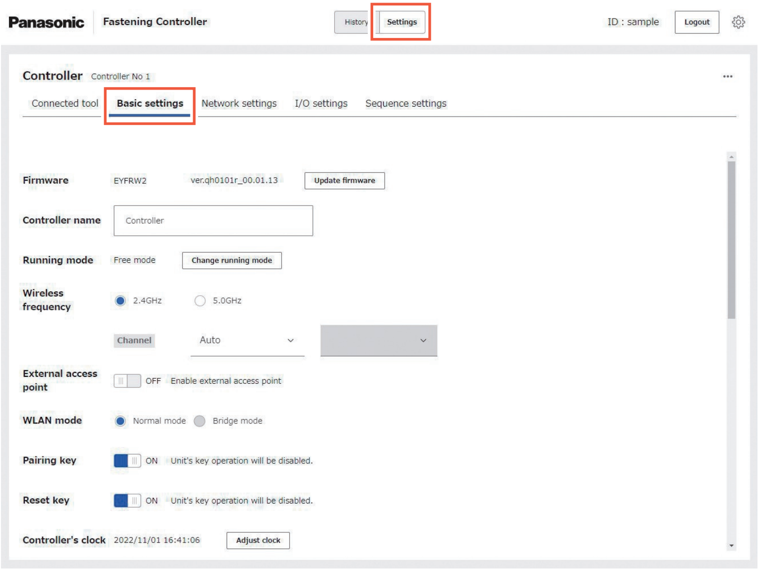
Connexion via le réseau

Dans la barre d’adresse du navigateur Web, entrez « https://XXX.XXX.XXX.XXX/controller » pour connecter le contrôleur via le port Ethernet (pour le réseau).
* « XXX.XXX.XXX.XXX » est une adresse IP.
* L’adresse IP par défaut est « 192.168.0.10 ». Si vous avez modifié l’adresse par défaut, entrez celle qui a été modifiée. Se reporter à P26

CONFIGURATION DU CONTRÔLEUR

Paramètres de base

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Basic settings ».
Vous pouvez configurer le contrôleur.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Controller Controller No 1

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name Controller

Running mode Free mode

Wireless frequency ● 2.4GHz ○ 5.0GHz

Channel Auto

External access point OFF Enable external access point

WLAN mode ● Normal mode ○ Bridge mode

Pairing key ON Unit's key operation will be disabled.

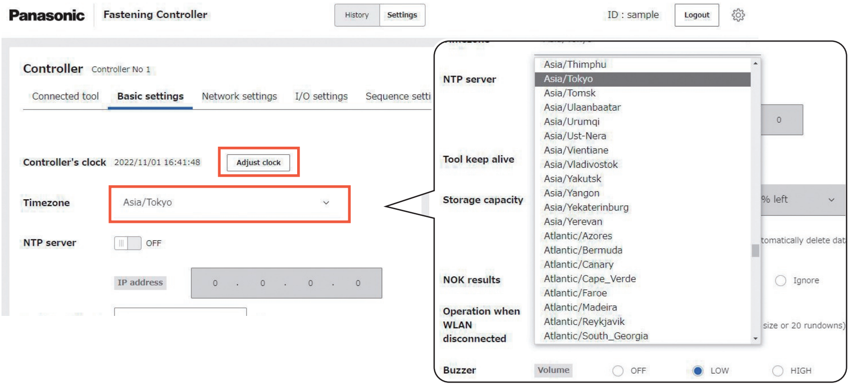
Reset key ON Unit's key operation will be disabled.

Controller's clock 2022/11/01 16:41:06

Réglage de l’heure

Sélectionnez « Timezone » puis cliquez sur [Adjust clock].
L’heure est actualisée.

- L’heure n’est pas encore réglée au moment de l’expédition. Assurez-vous de régler l’heure lorsque vous utilisez le contrôleur pour la première fois.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence setti
Adjust clock
Asia/Thimphu
Asia/Tokyo
Asia/Tomsk
Asia/Ulaanbaatar
Asia/Urumqi
Asia/Ust-Nera
Asia/Vientiane
Asia/Vladivostok
Asia/Yakutsk
Asia/Yangon
Asia/Yekaterinburg
Asia/Yerevan
Atlantic/Azores
Atlantic/Bermuda
Atlantic/Canary
Atlantic/Cape_Verde
Atlantic/Faroe
Atlantic/Madeira
Atlantic/Reykjavik
Atlantic/South_Georgia
Tool keep alive
Storage capacity
% left
tomatically delete dat
NOK results
Ignore
Operation when WLAN disconnected
size or 20 rundowns)
Buzzer
Volume
OFF
LOW
HIGH

Controller Controller No 1

Controller's clock 2022/11/01 16:41:48

Timezone Asia/Tokyo

NTP server OFF

IP address 0 . 0 . 0 . 0

* Si vous utilisez un serveur NTP, entrez l’adresse IP.

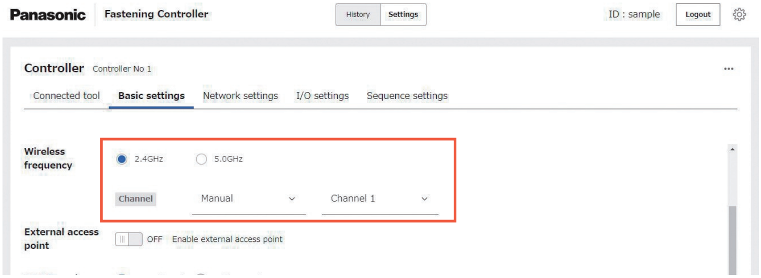
Réglage de la fréquence radio et du canal

Vous pouvez régler la fréquence à utiliser.
Sélectionnez « 2.4GHz » ou « 5GHz » puis le canal à utiliser.

* Les canaux sélectionnables varient entre « 2.4GHz » et « 5GHz ».

* Vous pouvez régler « Auto Channel ».
Le contrôleur sélectionne automatiquement les canaux disponibles dans l’environnement proche lorsqu’il est activé.
Le réglage peut être efficace contre les interférences radio.

* Lorsque vous installez plusieurs contrôleurs les uns à côté des autres, ne réglez pas les canaux adjacents.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Controller Controller No 1

Wireless frequency ● 2.4GHz ○ 5.0GHz

Channel Manual Channel 1

External access point OFF Enable external access point

Éléments de réglage

Firmware

La version du micrologiciel du contrôleur est affichée.
Cliquez sur [Update firmware] pour mettre à jour le micrologiciel.
Pour savoir comment mettre à jour, voir « Mise à jour du micrologiciel ».

Se reporter à P81

Controller name

Vous pouvez enregistrer le nom du contrôleur.
Utilisez un maximum de 32 caractères alphanumériques.

[Plage de réglage] Jusqu’à 32 caractères alphanumériques

* Pour les symboles, seul «-» (tiret), «_» (tiret du bas), et « » (espace demi-largeur) peuvent être utilisés.

Running mode

Sélectionnez le mode de fonctionnement du contrôleur.

[Par défaut]	Free mode
[Plage de réglage]	Free mode / Repeat mode (Basic mode / Sequence mode) / External control mode

Wireless frequency

Sélectionnez le canal de fréquence à utiliser pour la communication sans fil.

[Par défaut]	2.4GHz
[Plage de réglage]	2.4GHz (Auto / Channel 1 à 13) / 5GHz (Auto / Channel 36, 40, 44, 48)

CONFIGURATION DU CONTRÔLEUR (suite)

External access point

Vous pouvez activer la communication via un point d’accès externe. **Se reporter à P63**

[Par défaut] OFF (désactivé)
[Plage de réglage] OFF (désactivé)/ON (activé)

* WLAN mode : Ce réglage permet un fonctionnement sans utiliser de point d’accès externe.
Mode normal : Sans gérer les adresses IP de l’outil (attribution automatique)
Mode pont : En gérant (spécifiant) les adresses IP de l’outil

Pairing key

Vous pouvez activer la touche d’appariement.

[Par défaut] ON (activé)
[Plage de réglage] OFF (désactivé)/ON (activé)

Reset key

Vous pouvez activer la touche de réinitialisation.

[Par défaut] ON (activé)
[Plage de réglage] OFF (désactivé)/ON (activé)

Controller's clock

Réglez l’horloge du contrôleur.
Cliquez sur [Adjust clock] pour actualiser l’heure.

Timezone

Vous pouvez régler un fuseau horaire souhaité lors du réglage de l’horloge du contrôleur.

NTP server

Définissez un serveur NTP si vous utilisez le réglage automatique de l’horloge.

Tool keep alive

Réglez la fréquence à laquelle le contrôleur vérifie la disponibilité des outils en mode de communication sans fil.
Les outils qui ne répondent pas sont détectés comme étant hors ligne, puis sont déconnectés.

[Par défaut] 30 s
[Plage de réglage] 10 s à 3600 s

Storage capacity

Activez ou désactivez la notification de faible capacité d’entreposage et réglez le comportement en cas de manque de capacité.

[Par défaut] Notification - OFF,
Fonctionnement lorsque la capacité est insuffisante - Automatically delete data
[Plage de réglage] Notification - OFF/ON (capacité restante 10/20/30/40/50 %),
Fonctionnement lorsque la capacité est insuffisante - Suspend operation / Automatically delete data

Le réglage par défaut est « Automatically delete data ».
Réfléchissez bien à la manière de traiter les données avant de sélectionner « Suspend operation » si nécessaire.

NOK results

Sélectionnez comment gérer les résultats d’échec de fixation.

[Par défaut] Store data only
[Plage de réglage] Report to system / Store data only / Ignore

Operation when WLAN disconnected

Sélectionnez le comportement en cas d’interruption temporaire de la communication sans fil.

[Par défaut] Suspend tool
[Plage de réglage] Suspend tool / Enable fastening (Until batch size or 20 rundowns)

Pour plus de détails, voir « COMPORTEMENT DE L’OUTIL AVEC LA COMMUNICATION SANS FIL DÉCONNECTÉE ». **Se reporter à P70**

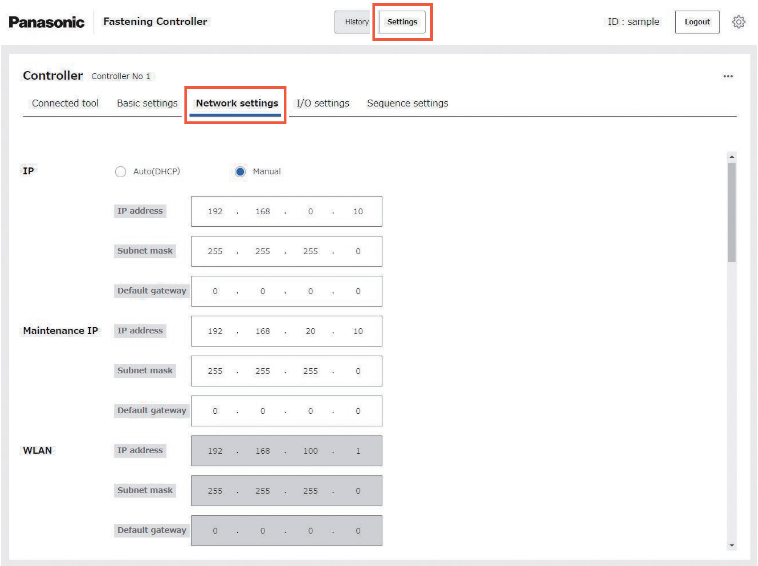
Buzzer

Sélectionnez le volume et la signification du signal sonore.

[Par défaut] Volume - LOW,
Beep - Tous cochés
[Plage de réglage] Volume - OFF/LOW/HIGH,
Beep - Cochez ou décochez chaque élément

Paramètres réseau

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Paramètres] en haut et sélectionnez l’onglet « Paramètres réseau ».
Vous pouvez régler les paramètres réseau du contrôleur.



IP ○ Auto(DHCP) ● Manual

IP	IP address	192 . 168 . 0 . 10
	Subnet mask	255 . 255 . 255 . 0
	Default gateway	0 . 0 . 0 . 0
Maintenance IP	IP address	192 . 168 . 20 . 10
	Subnet mask	255 . 255 . 255 . 0
	Default gateway	0 . 0 . 0 . 0
WLAN	IP address	192 . 168 . 100 . 1
	Subnet mask	255 . 255 . 255 . 0
	Default gateway	0 . 0 . 0 . 0

■ Éléments de réglage

IP

Configurez l’adresse IP du port Ethernet (pour le réseau).

[Par défaut]	Manual
[Plage de réglage]	Auto (DHCP) / Manual

* Pour « Manual »

[Par défaut]	IP address - 192.168.0.10 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

Maintenance IP

Configurez l’adresse IP du port Ethernet (pour la maintenance).

[Par défaut]	IP address - 192.168.20.10 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

WLAN

Configurez l’adresse IP (du côté du contrôleur) pour la communication sans fil avec les outils.

[Par défaut]	IP address - 192.168.100.1 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

Atlas Open Protocol

Définissez les paramètres relatifs au protocole Atlas Open.
Pour plus de détails, voir « Connexion via la communication Open Protocol ».

Se reporter à P57

Access point

Définissez le point d’accès interne pour la communication sans fil avec les outils.

[Par défaut]	SSID - Numéro de modèle du contrôleur-adresse MAC Security-WPA2
[Plage de réglage]	SSID - Un maximum de 32 caractères alphanumériques Security-WPA2

External access point

Configurez le point d’accès externe à utiliser.

[Par défaut]	SSID - Vide Security - Vide Password - Vide
[Plage de réglage]	SSID - Un maximum de 32 caractères alphanumériques Security - Open/WPA2 Password - 8 à 63 caractères alphanumériques

* Pour les symboles, uniquement «"», «¥», «,», et «’ (apostrophe)» peuvent être utilisés.
* L’option est activée uniquement lorsque le « External access point » a été réglé sur « ON » dans le réglage basique.

- Pour les adresses IP pour « IP » et « Maintenance IP », n’utilisez pas le même sous-réseau.
  (Lorsque vous définissez une valeur par défaut (255.255.255.0) dans« Subnet mask », définissez des valeurs différentes dans la partie correspondante à « 192.168.0 » ou « 192.168.20 ».)

APPARIEMENT AVEC UN OUTIL

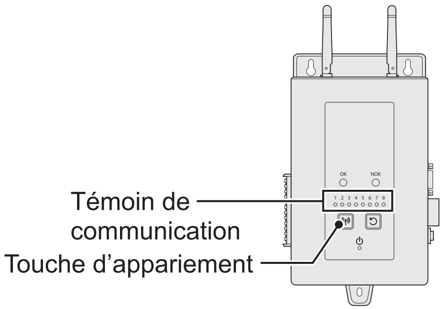
Démarrage du mode d’appariement sur le contrôleur

Vous pouvez mettre le contrôleur en mode d’appariement avec « Utilisation de la touche sur l’unité » ou « Réglage dans l’écran de configuration ».
Pendant 2 minutes en mode d’appariement, démarrez le mode d’appariement sur un outil dans la zone de couverture pour établir l’appariement.
Si l’appariement n’est pas établi dans le délai, le mode d’appariement se termine.

* Après avoir tenté de démarrer l’appariement, cela peut prendre un certain temps pour que le contrôleur entre en mode d’appariement.

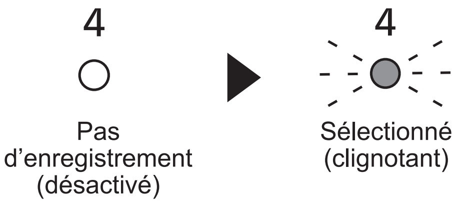
■ Utilisation de la touche sur l’unité

Utilisez la touche d’appariement sur l’unité du contrôleur.
Sélectionnez le témoin de communication du numéro sans enregistrement (témoin éteint) et maintenez la touche d’appariement enfoncée pour entrer en mode d’appariement.
Voir la procédure suivante pour plus de détails.

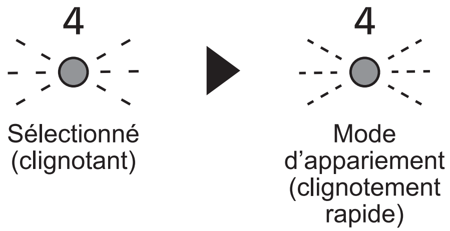

Témoin de communication
Touche d’appariement

(Pour enregistrer l’outil N° 4)

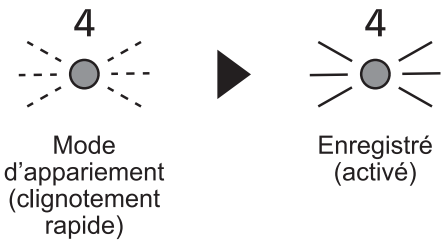
1 **Appuyez sur la touche d’appariement sur le contrôleur 4 fois pour sélectionner l’outil Nº 4.**
Le témoin de communication Nº 4 clignote.


4
Pas d’enregistrement (désactivé)
4
Sélectionné (clignotant)

2 **Lorsque le N° 4 est sélectionné, maintenez la touche d’appariement enfoncée sur le contrôleur pour entrer en mode d’appariement de l’outil N° 4.**
En mode d’appariement, le témoin de communication Nº 4 commence à clignoter rapidement.

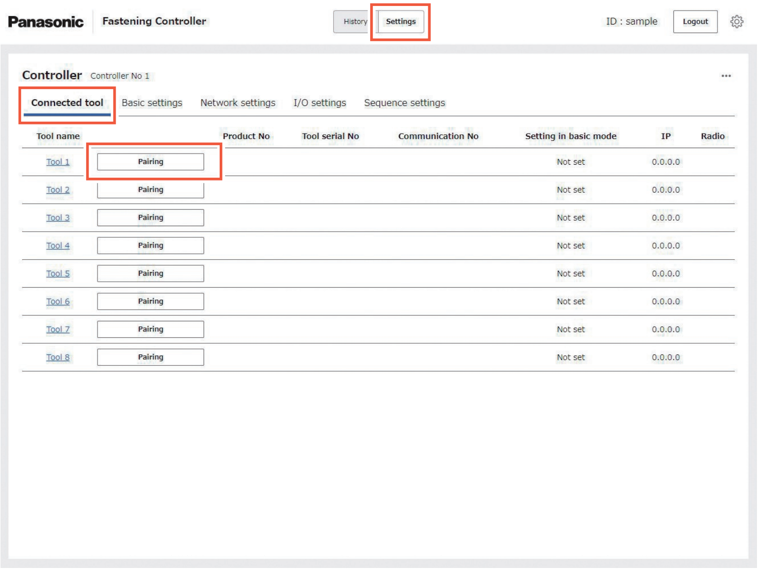

4
Sélectionné (clignotant)
4
Mode d’appariement (clignotement rapide)

3 **Actionnez l’outil N° 4 pour établir l’appariement.**
Le témoin de communication N° 4 reste allumé.
Pour savoir comment utiliser l’outil, voir « Démarrage du mode d’appariement sur un outil ».
Se reporter à P30


4
Mode d’appariement (clignotement rapide)
4
Enregistré (activé)

■ Réglage dans l’écran de configuration

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool ».
Dans l’écran « Connected tool », cliquez sur [Pairing] du numéro d’outil souhaité.
Une fois que le contrôleur entre en mode d’appariement, effectuez la procédure dans « Démarrage du mode d’appariement sur un outil ». **Se reporter à P30**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Pairing				Not set	0.0.0.0	
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

<Pour référence> Remplacement par un outil de rechange

Lors du remplacement d’un outil apparié défectueux par un nouvel outil du même modèle, annulez l’appariement **Se reporter à P30** puis effectuez l’appariement **Se reporter à P28** afin que les paramètres de fixation et les autres réglages puissent être automatiquement transférés.

* Pour apparier avec un outil ayant un numéro de produit différent, annulez l’appariement pour supprimer les informations d’appariement actuelles avant de l’apparier avec. **Se reporter à P34**

Affichage lorsque l’appariement est terminé

Une fois l’appariement terminé, si l’écran de configuration n’affiche pas les informations de l’outil apparié, procédez à la mise à jour de l’affichage dans l’écran de configuration.

* En « Bridge mode » ou lorsque « External access point » est activé, réglez l’adresse IP de l’outil avant de commencer l’enregistrement de l’appariement.

APPARIEMENT AVEC UN OUTIL (suite)

Démarrage du mode d'appariement sur un outil

Mettez le contrôleur en mode d'appariement avant de démarrer le mode d'appariement sur un outil.

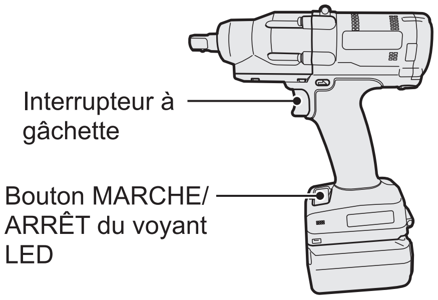
■ Procédure

1 **Réglez le bloc-batterie. Tout en maintenant enfoncé le bouton MARCHE/ARRÊT du voyant LED, appuyez sur le bouton de déclenchement.**

L'outil entre en mode d'appariement. La communication sans fil est automatiquement établie et l'enregistrement de l'appariement est terminé.

* Pour plus de détails, voir les Instructions d'utilisation de l'outil.

* Si l'appariement échoue, annulez l'appariement sur le contrôleur puis réessayez.

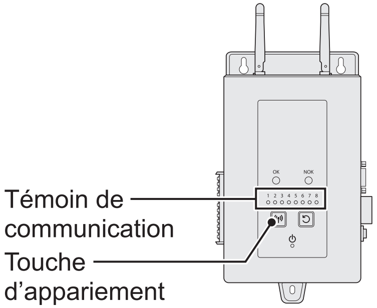

Interrupteur à gâchette
Bouton MARCHE/ ARRÊT du voyant LED

Annulation de l'appariement

Vous pouvez annuler l'enregistrement de l'appariement sur le contrôleur avec « Utilisation de la touche sur l'unité » ou « Réglage dans l'écran de configuration ».

■ Utilisation de la touche sur l'unité

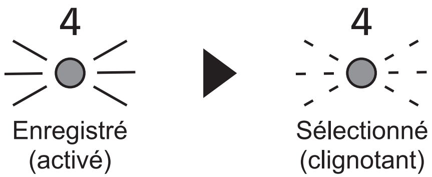
Utilisez la touche d'appariement sur l'unité du contrôleur.
Sélectionnez le témoin de communication du numéro d'outil dont vous souhaitez annuler l'enregistrement (témoin allumé) et maintenez la touche d'appariement enfoncée pour annuler l'enregistrement d'appariement.
Voir la procédure suivante pour plus de détails.


Témoin de communication
Touche d'appariement

(Pour annuler l'outil N° 4)

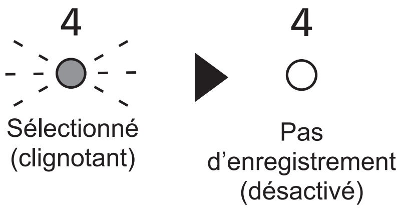
1 **Appuyez sur la touche d'appariement sur le contrôleur 4 fois pour sélectionner l'outil Nº 4.**

Le témoin de communication Nº 4 clignote.


4
Enregistré (activé)
4
Sélectionné (clignotant)

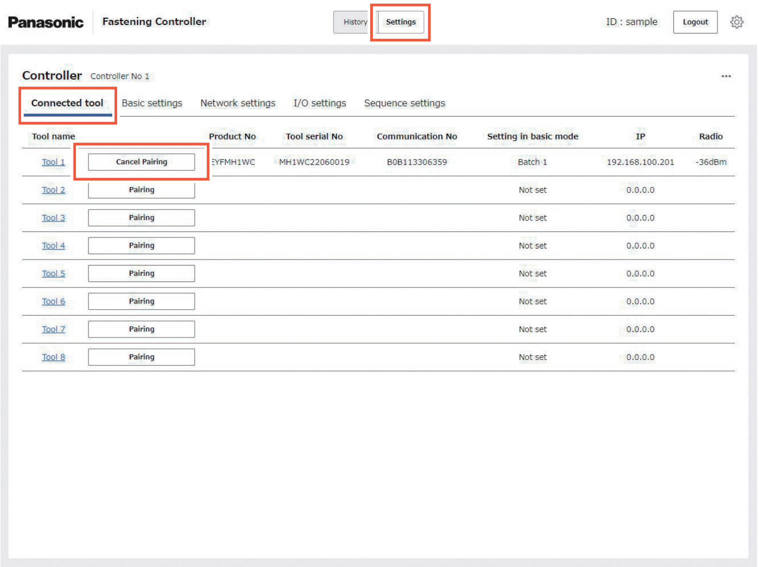
2 **Lorsque le N° 4 est sélectionné, maintenez la touche d'appariement enfoncée sur le contrôleur pour annuler l'enregistrement de l'appariement de l'outil N° 4.**

Lorsque l'appariement est annulé, le témoin de communication N° 4 arrête de clignoter et s'éteint.


4
Sélectionné (clignotant)
4
Pas d'enregistrement (désactivé)

■ Réglage dans l'écran de configuration

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « Connected tool ».
Dans l'écran « Connected tool », cliquez sur [Cancel Pairing] du numéro d'outil souhaité.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

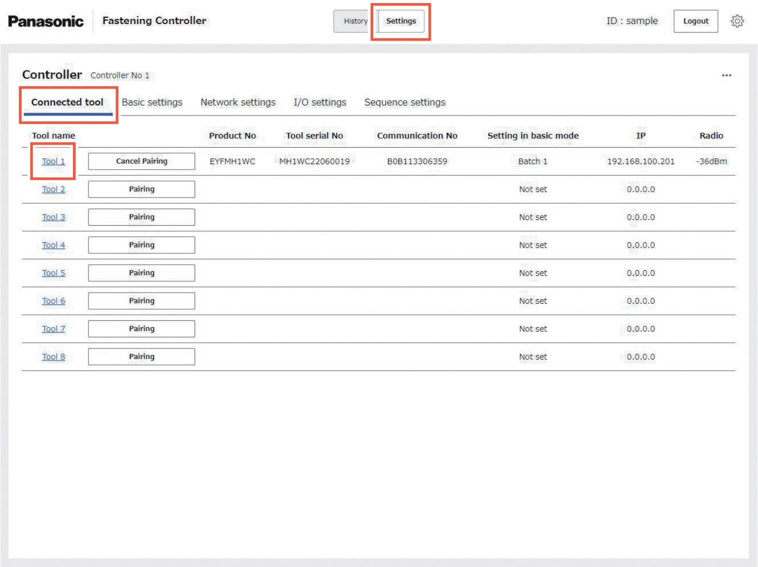
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

* Si le contrôleur ne peut pas communiquer avec l'outil en raison de l'arrêt de l'outil ou d'une autre raison, vérifiez [Force to unpair] dans la boîte de dialogue de confirmation d'annulation de l'appariement.

CONFIGURATION D’UN OUTIL

Affichage de l’écran Outil

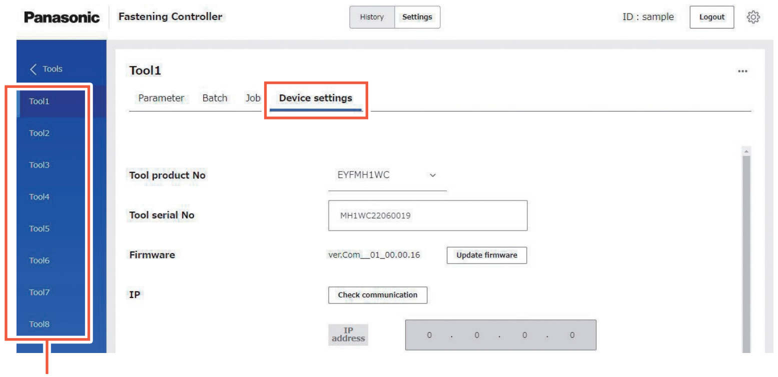
Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool ».
Dans l’écran « Connected tool », cliquez sur le numéro d’outilsouhaité.
L’écran correspondant au numéro d’outil s’affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Affichage de l’écran de configuration de l’outil

Dans l’onglet « Device settings » sur l’écran du numéro d’outil, vous pouvez effectuer les réglages de base de l’outilet entrez les paramètres communs.
* Pour changer l’outil, sélectionnez celui souhaité dans la liste d’outils.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Update firmware
Check communication

Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16
IP
IP address: 0 . 0 . 0 . 0

Liste d’outils

Éléments de réglage de l’outil

Tool product No

Sélectionnez le numéro de produit d’outil.

[Par défaut] Vide
[Plage de réglage] Sélectionnable dans le menu déroulant

* Automatiquement sélectionné si vous établissez l’appariement au préalable.
* Le numéro de produit de l’outil ne peut pas être modifié après l’appariement. Annulez l’appariement, puis modifiez-le.

Tool serial No

Vous pouvez régler et afficher l’identification de l’unité de l’outil.

[Par défaut] ID de modèle à 5 chiffres + numéro de série à 8 chiffres (année de fabrication à 2 chiffres + mois à 2 chiffres + lot de production à 4 chiffres)
[Plage de réglage] 13 à 16 caractères alphanumériques

* Le numéro de modèle peut ne pas être reconnu correctement si les informations sont modifiées.
Ne le modifiez pas sauf si cela est nécessaire par la règle de gestion.

Firmware

La version du micrologiciel de la pièce de communication de l’outil est affichée.
Cliquez sur [Update firmware] pour mettre à jour le micrologiciel.
Pour savoir comment mettre à jour, voir « Mise à jour du micrologiciel ».

Se reporter à P81

IP

Définissez l’adresse IP (du côté de l’outil) pour la communication sans fil avec les outils.

[Par défaut] IP address - 192.168.100.201 (Outil 1) à 208 (Outil 8)
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

* Ils deviennent tous « 0.0.0.0 » en Bridge mode ou lorsque « External access point » est activé.

Tool’s clock

L’horloge de l’outil s’affiche. Cliquez sur [Adjust to controller] pour ajuster l’heure.

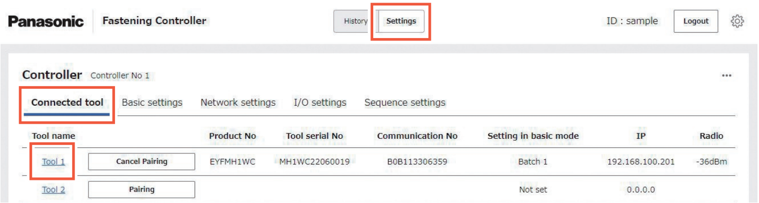
- Pour les autres éléments de réglage, voir les Instructions d’utilisation de l’outil.

Suppression des informations d’enregistrement

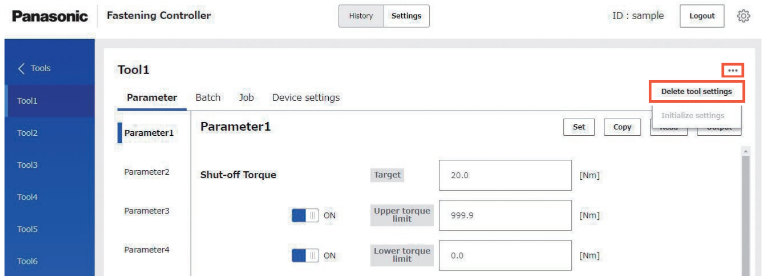
Pour arrêter l’utilisation d’un outil ou apparier un outil avec un numéro de produit différent, supprimez les informations d’appariement.
* Annulez l’appariement au préalable.

1 **Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool ».**
L’écran « Connected tool » s’affiche.

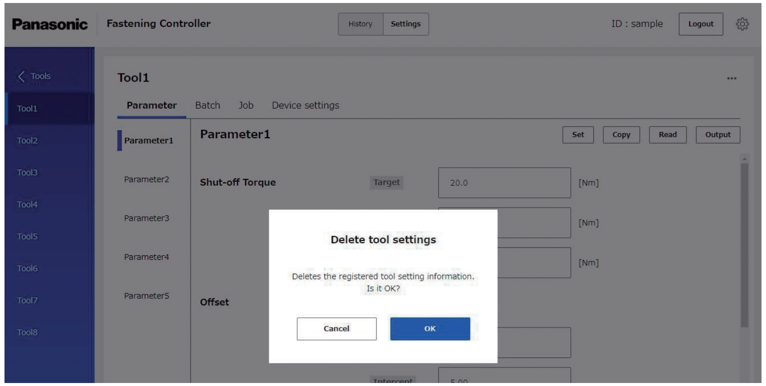
2 **Dans l’écran « Connected tool », cliquez sur le numéro d’outil souhaité.**
L’écran correspondant au numéro d’outil s’affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Tool name
Product No
Tool serial No
Communication No
Setting in basic mode
IP
Radio
Tool 1
Cancel Pairing
EYFMH1WC
MH1WC22060019
B0B113306359
Batch 1
192.168.100.201
-36dBm
Tool 2
Pairing
Not set
0.0.0.0

3 **Cliquez sur ··· (touche d’option d’outil) puis [Delete tool settings].**
L’écran « Delete tool settings » s’affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter1
Set
Copy
Shut-off Torque
Target
20.0
[Nm]
ON
Upper torque limit
999.9
[Nm]
ON
Lower torque limit
0.0
[Nm]

4 **Dans l’écran « Delete tool settings », cliquez sur [OK].**


Delete tool settings

Deletes the registered tool setting information.
Is it OK?

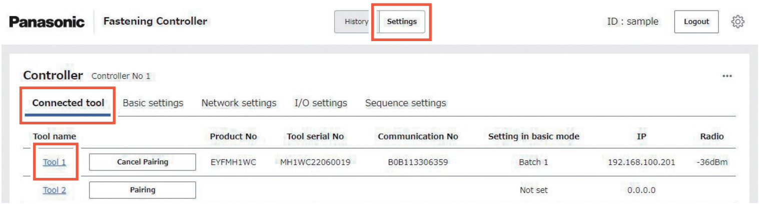
Cancel
OK
Panasonic
Fastening Controller
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Shut-off Torque
Target
20.0
Offset

Réinitialisation aux réglages d’usine

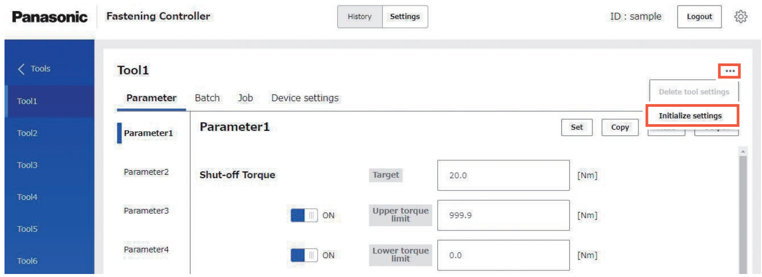
Vous pouvez réinitialiser un outil à ses réglages d’usine.
* La réinitialisation annule l’appariement.

1 **Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool ».**
L’écran « Connected tool » s’affiche.

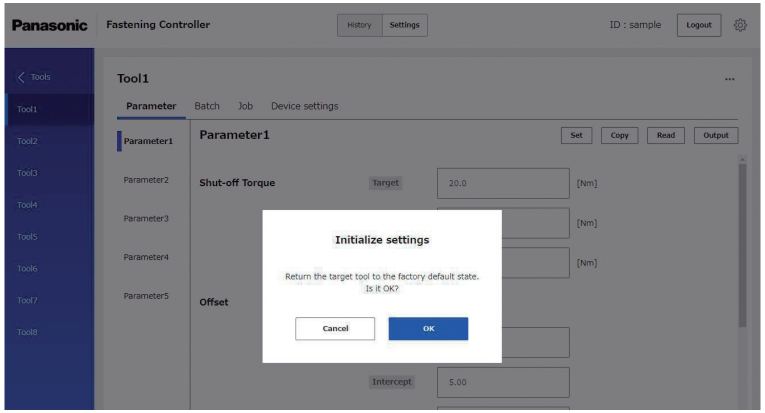
2 **Dans l’écran « Connected tool », cliquez sur le numéro d’outilsouhaité.**
L’écran correspondant au numéro d’outil s’affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Tool name
Product No
Tool serial No
Communication No
Setting in basic mode
IP
Radio
Tool 1
Cancel Pairing
EYFMH1WC
MH1WC22060019
B0B113306359
Batch 1
192.168.100.201
-36dBm
Tool 2
Pairing
Not set
0.0.0.0

3 **Cliquez sur ··· (touche d’option d’outil) puis [Initialize settings].**
L’écran « Initialize settings » s’affiche.


Panasonic
Fastening Controller
Tools
Tool1
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Parameter1
Set
Copy
Shut-off Torque
Target
20.0
Upper torque limit
999.9
Lower torque limit
0.0
[Nm]

4 **Dans l’écran « Initialize settings », cliquez sur [OK].**


Initialize settings

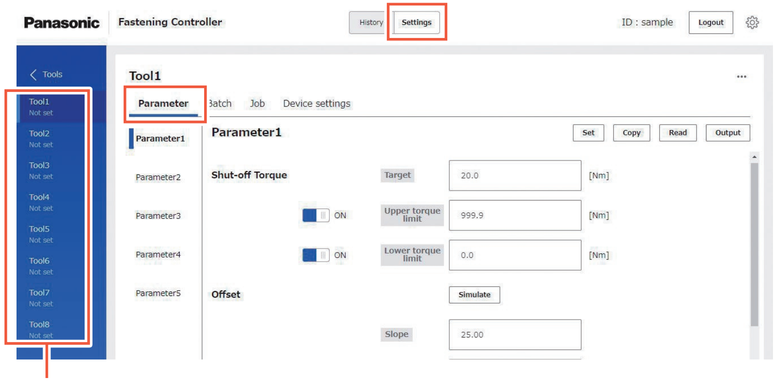
Return the target tool to the factory default state.
Is it OK?

Cancel
OK
Panasonic
Fastening Controller
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Shut-off Torque
Target
20.0
Offset
Intercept
5.00

RÉGLAGE DES PARAMÈTRES DE FIXATION DES OUTILS

Réglage des paramètres

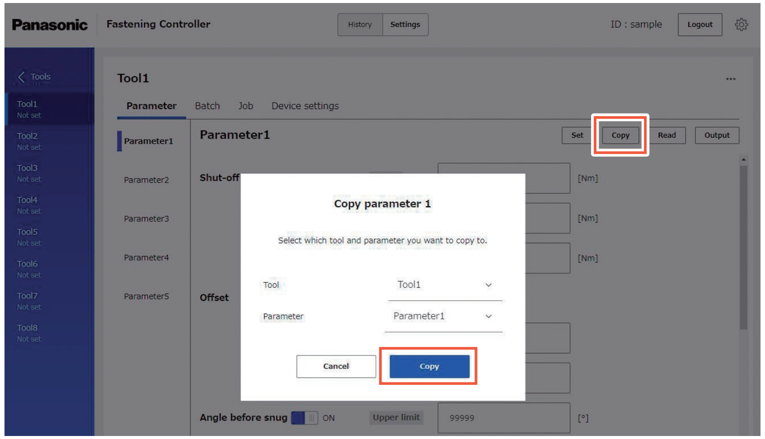
Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool».
Dans l’écran « Connected tool », cliquez sur le numéro d’outilsouhaité.
Dans l’écran pour le numéro d’outil, sélectionnez l’onglet « Parameter » pour effectuer les réglages.
Vous pouvez définir cinq paramètres (paramètres 1 à 5) pour chaque outil.
* Pour changer l’outil, sélectionnez celui souhaité dans la liste d’outils.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Not set
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
20.0
[Nm]
ON
Upper torque limit
999.9
Lower torque limit
0.0
Offset
Simulate
Slope
25.00

Liste d’outils

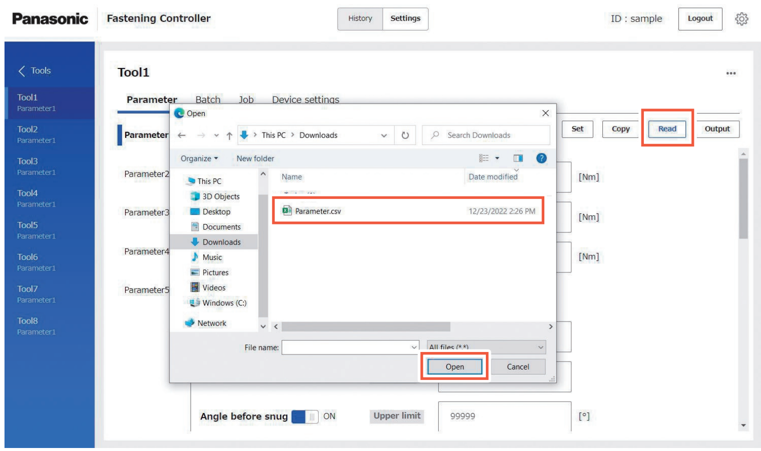
Copie des paramètres

Vous pouvez copier le paramètre défini pour créer un nouveau paramètre ou l’utiliser sur un autre outil.
Dans l’onglet « Parameter » de l’écran du numéro d’outil, cliquez sur [Copy] pour afficher l’écran de copie du paramètre. Dans l’écran, sélectionnez la destination et cliquez sur [Copy].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Copy parameter 1
Select which tool and parameter you want to copy to.
Tool
Tool1
Parameter
Parameter1
Cancel
Copy
Angle before snug
ON
Upper limit
99999

Chargement des paramètres

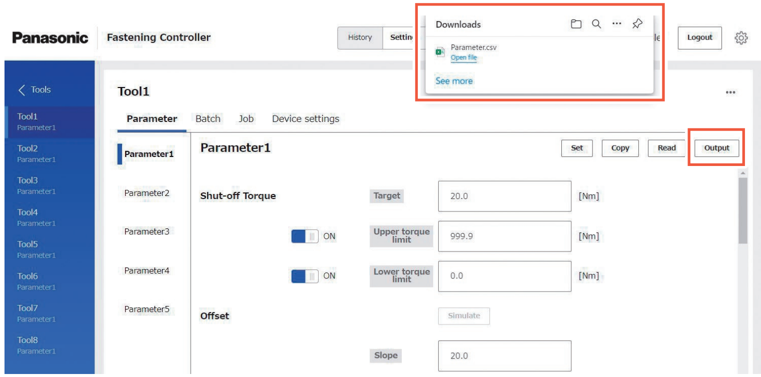
Vous pouvez enregistrer un paramètre en chargeant un fichier de paramètre enregistré dans le PC de configuration dans le contrôleur.
Vous pouvez également charger un fichier de paramètres créé avec « Tool Manager ».
Dans l’onglet « Parameter » de l’écran du numéro d’outil, cliquez sur [Read] et ouvrez le fichier de paramètres.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tool1
Parameter
Batch
Job
Device settings
Open
This PC › Downloads
Search Downloads
Organize
New folder
Name
Date modified
Parameter.csv
12/23/2022 2:26 PM
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
File name:
All files (*.*)
Open
Cancel
Set
Copy
Read
Output
Angle before snug
Upper limit
99999

Exportation des paramètres

Vous pouvez exporter le paramètre créé vers le PC de configuration.
Vous pouvez utiliser le fichier exporté comme sauvegarde pour le copier vers un autre contrôleur, ou le déplacer vers un autre PC de configuration.
Dans l’onglet « Parameter » de l’écran du numéro d’outil, cliquez sur [Output] et enregistrez le fichier de paramètres.

Ne modifiez pas le fichier de paramètres exporté.
Sinon, il risque de ne pas être lu correctement.

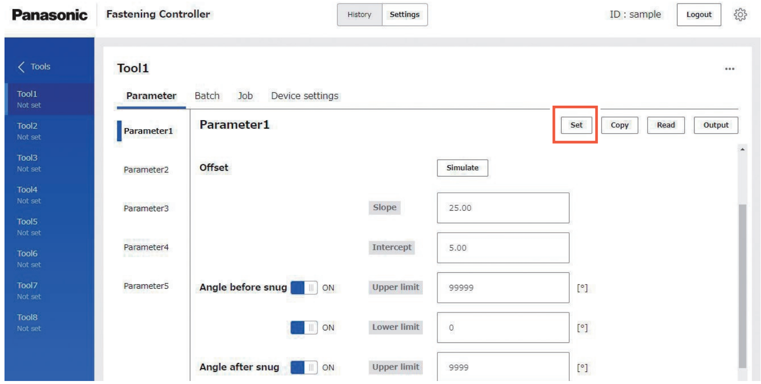

Downloads
Parameter.csv
Open file
See more
Panasonic
Fastening Controller
History
Logout
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Shut-off Torque
Target
20.0
Upper torque limit
999.9
Lower torque limit
0.0
Offset
Simulate
Slope
20.0

Enregistrement des paramètres

Enregistrez un paramètre pour l’utiliser afin de contrôler un outil en « Free mode » du mode de fonctionnement du contrôleur.

* Il n’est pas utilisé en « Repeat mode » et en « External control mode ».
(Pour le « Free mode », le « Repeat mode », et le « External control mode », voir « Configuration du mode de fonctionnement ». **Se reporter à P45**

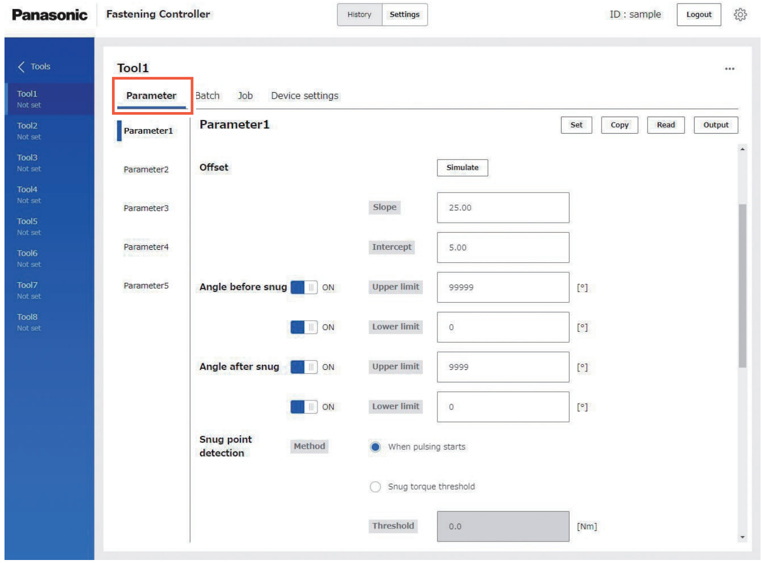
Dans l’onglet « Parameter » de l’écran du numéro d’outil, cliquez sur [Set].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]

Éléments de paramètres

Réglez les éléments de paramètre de fixation.
Pour plus de détails, voir les Instructions d’utilisation de l’outil.

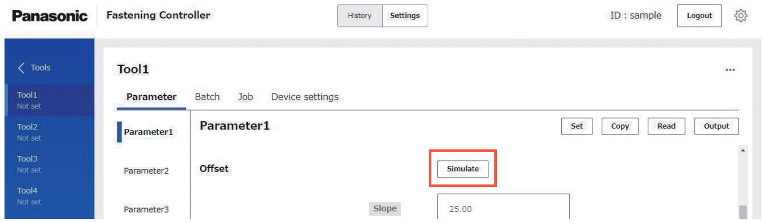

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]
ON Lower limit 0 [°]
Snug point detection Method ● When pulsing starts ○ Snug torque threshold
Threshold 0.0 [Nm]

■ Réglage d’un décalage (paramètre, référence ①)

Définissez un décalage pour qu’il corresponde à la valeur de sortie du couple avec la valeur mesurée réelle.

1 **Dans l’onglet « Parameter » de l’écran du numéro d’outil, cliquez sur [Simulate] dans « Offset ».**
La page « Offset » s’affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00

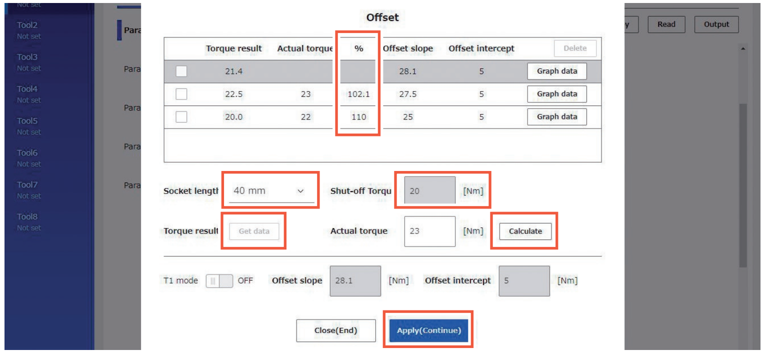
2 **Entrez une valeur à définir et cliquez sur [Apply].**
Entrez « Socket length » et « Shut-off Torque ».
Cliquez sur [Apply] pour envoyer les valeurs d’entrée à l’outil.
L’outil entre en mode de décalage (indiqué par T2).

3 **Effectuez le travail réel à l’aide de l’outil puis cliquez sur [Get data].**
Un journal d’historique de fixation est ajouté à la liste de l’historique dans la page « Offset ».
* Même si l’outil est prêt pour la fixation (« mode C ») après avoir cliqué sur [Get data], ne démarrez pas la fixation normale tant que le réglage du décalage n’est pas terminé.

4 **Lorsque le journal de l’historique de fixation obtenu est sélectionné, saisissez une valeur de couple mesurée réelle (re-fixation) et cliquez sur [Calculer].**
Un décalage correspondant au couple de sortie avec le couple mesuré réel de l’outil est calculé automatiquement.

5 **Confirmez que le décalage est actualisé et cliquez sur [Apply].**
La valeur réglée est envoyée à l’outil.

6 **Répétez les étapes 3 à 5 jusqu’à ce que la différence devienne suffisamment minime.**
* Conservez les valeurs dans la colonne «%» entre 95% et 105%.


Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Read
Output
Delete
Graph data
Get data
Calculate
Close(End)
Apply(Continue)

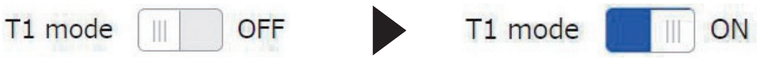
Offset

	Torque result	Actual torque	%	Offset slope	Offset intercept	
☐	21.4			28.1	5	Graph data
☐	22.5	23	102.1	27.5	5	Graph data
☐	20.0	22	110	25	5	Graph data

Socket lengtl 40 mm
Shut-off Torqu 20 [Nm]
Torque result
Actual torque 23 [Nm]
T1 mode OFF
Offset slope 28.1 [Nm]
Offset intercept 5 [Nm]

[À propos du T1 mode]

Si [T1 mode] est coché dans l’écran de réglage de décalage, le contrôleur est en mode de sortie minimum.
(Si [T1 mode] est décoché le contrôleur revient en « Offset Mode ».)


T1 mode
OFF
T1 mode
ON

T1 mode

[Description]
Vous pouvez vérifier si le contrôle de couple fonctionne correctement lorsque le couple cible est proche de la limite inférieure de la plage de contrôle du couple du contrôleur.
Dans ce mode, le contrôleur est coupé aux décomptes minimum par minute (sortie minimale).
À ce stade, le journal de l’historique des travaux n’est pas enregistré.
Après avoir utilisé ce mode, utilisez une jauge de couple ou une clé dynamométrique pour vérifier que le couple de sortie du contrôleur n’a pas dépassé le couple cible.
L’unité de contrôleur peut ne pas être utilisable pour certaines opérations si son couple de sortie dépasse le couple cible dans ce mode.

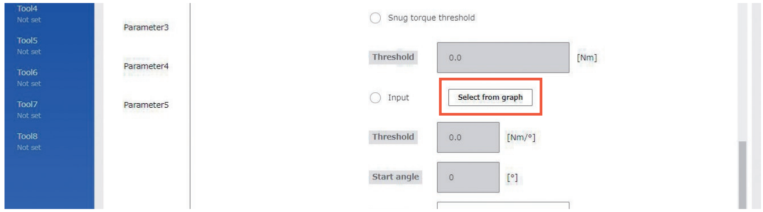
* La fixation avec d’autres outils est suspendue lorsque vous définissez un décalage.

■ Réglage d’un point d’adaptation (paramètre, référence ②)

Vous pouvez régler un point de visée en fonction d’une forme d’onde.

1 **Dans l’onglet « Parameter » de l’écran de numéro d’outil, cliquez sur [Select from graph] dans « Snug point detection ».**

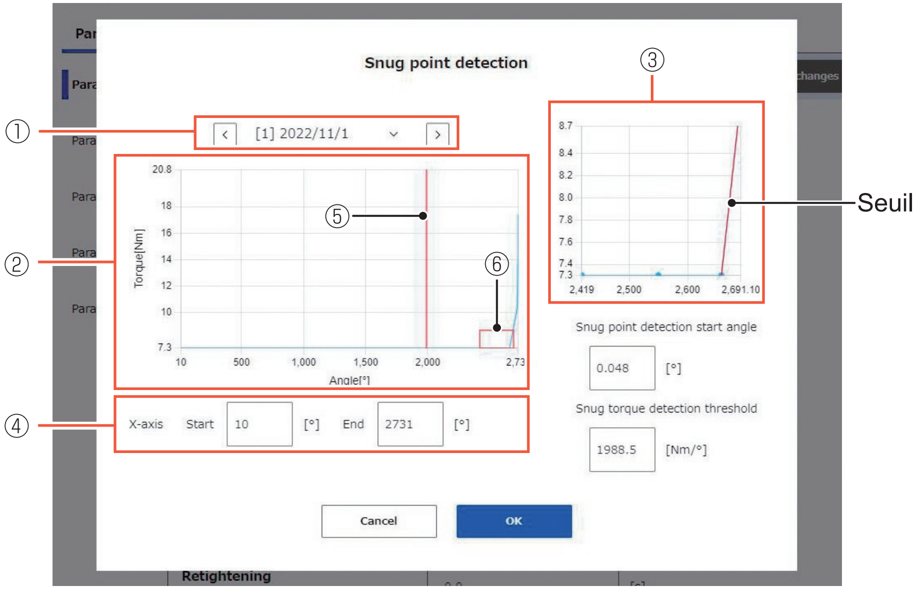
- L’écran « Snug point detection » s’affiche avec la forme d’onde actuelle de l’outil.
- Les données d’historique de fixation sont nécessaires pour référence. Effectuez ce réglage après effectué au moins une fixation.
- Vous pouvez changer la forme d’onde à utiliser avec les flèches (①).


Tool4
Not set
Tool5
Not set
Tool6
Not set
Tool7
Not set
Tool8
Not set
Parameter3
Parameter4
Parameter5
○ Snug torque threshold
○ Input
Select from graph

Threshold 0.0 [Nm]
Threshold 0.0 [Nm/°]
Start angle 0 [°]

2 **Définissez un seuil dans le graphique.**

- La fenêtre principale (②) affiche une forme d’onde entière et la sous-fenêtre (③) agrandit une partie spécifique de la forme d’onde.
- Vous pouvez modifier l’étendue de la forme d’onde affichée dans la fenêtre principale en entrant les angles de début et de fin dans « X-axis » (④) sous le graphique.
- Vous pouvez régler l’angle de début de détection du point de visée (⑤) en déplaçant la barre verticale.
- Ajustez la position du cadre de sélection (⑥) dans la fenêtre principale pour modifier la taille d’affichage de la sous-fenêtre.
- Sélectionnez un seuil à régler dans la sous-fenêtre (③).


Snug point detection
①
②
③
④
⑤
⑥
Seuil
[1] 2022/11/1
Torque[Nm]
20.8
18
16
14
12
10
7.3
10
500
1,000
1,500
2,000
2,73
Angle[°]
8.7
8.4
8.2
8.0
7.8
7.6
7.4
7.3
2,419
2,500
2,600
2,691.10
Cancel
OK
Retightening

X-axis Start 10 [°] End 2731 [°]

Snug point detection start angle 0.048 [°]

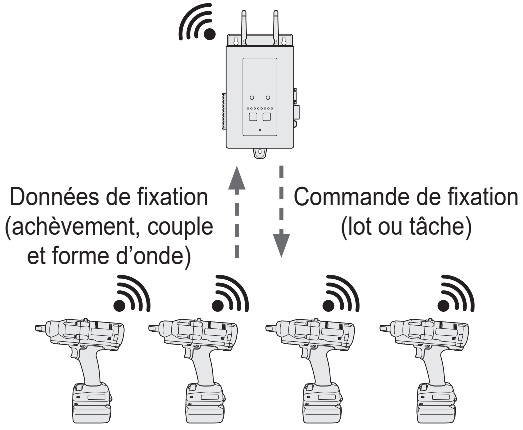
Snug torque detection threshold 1988.5 [Nm/°]

RÉGLAGE DU MODE DE COMMANDE DE FIXATION

Contrôle de la fixation avec les outils

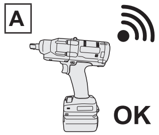
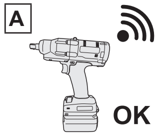
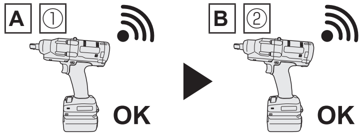
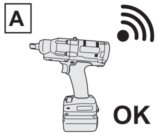
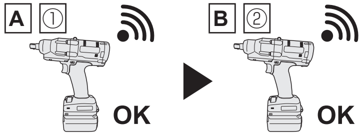
Le contrôleur peut contrôler jusqu'à 8 outils connectés pour la fixation.
Il reçoit les données de fixation de chaque tâche de fixation et compte la quantité fixée.

Nombre maximum d'appareils connectés : 8


Données de fixation (achèvement, couple et forme d'onde)
Commande de fixation (lot ou tâche)

Combinaisons de commande de fixation typiques

Vous pouvez créer différentes combinaisons de paramètres de commande de fixation. Voir les combinaisons typiques ci-dessous.

<table>
<tr><th rowspan="2">Mode</th><th rowspan="2">[Free mode]</th><th colspan="2">[Repeat mode]</th></tr>
<tr><th>[Basic mode]</th><th>[Sequence mode]</th></tr>
<tr><td>**Critère de réussite**</td><td>–
(La quantité n'est pas spécifiée)</td><td>La fixation de la quantité cible est terminée</td><td>Les outils effectuent la fixation des quantités ciblées respectives dans l'ordre spécifié</td></tr>
<tr><td>**[Batch]
« Valeur définie unique »
(Fixation dans la même condition)
* Type de pièce à usiner unique**</td>
<td> <table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>10 Nm</td><td>∞</td></tr></table>Parameter</td>
<td> <table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>10 Nm</td><td>10</td></tr></table>Batch</td>
<td> <table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>10 Nm</td><td>10</td></tr></table><table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>20 Nm</td><td>5</td></tr></table>Batch et Sequence</td></tr>
<tr><td>**[Job]
Plusieurs valeurs définies
(Fixation dans des conditions différentes)
* Plusieurs types de pièces à usiner**</td>
<td></td>
<td> <table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>Job</td>
<td> <table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table><table><tr><td>Valeur définie</td><td>Quantité ciblée</td></tr><tr><td>20 Nm</td><td>5</td></tr><tr><td>30 Nm</td><td>10</td></tr></table>Job et Sequence</td></tr>
<tr><td>**Remarque**</td><td>–</td><td>* Une tâche peut contenir jusqu'à 10 étapes.</td><td>* Une séquence peut contenir jusqu'à 10 étapes.</td></tr>
</table>

Nombre de combinaisons pouvant être enregistrées

Voir le nombre de combinaisons qui peuvent être enregistrées dans le contrôleur comme indiqué ci-dessous.

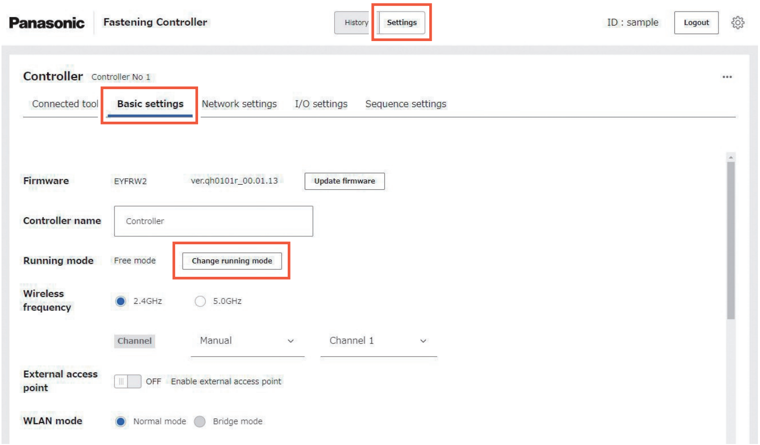
Mode du contrôleur		Réglage de l'outil	Nombre de combinaisons pouvant être enregistrées
Free mode		**Parameter**	○ 5 combinaisons par outil
Repeat mode	**Basic mode (commande indépendante)**	**Batch**	○ 5 combinaisons par outil
		Job	○ 5 combinaisons par outil
	Sequence mode (Contrôle séquentiel)	**Batch/Job**	○ 5 combinaisons
External control mode		–	○

Configuration du mode de fonctionnement

Configurez le mode de fonctionnement du contrôleur comme indiqué ci-dessous.

1 **Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « Basic settings ».**

2 **Dans l'onglet « Basic settings », cliquez sur [Change running mode].**
L'écran « Change running mode » s'affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Controller Controller No 1

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name Controller

Running mode Free mode

Wireless frequency ● 2.4GHz ○ 5.0GHz

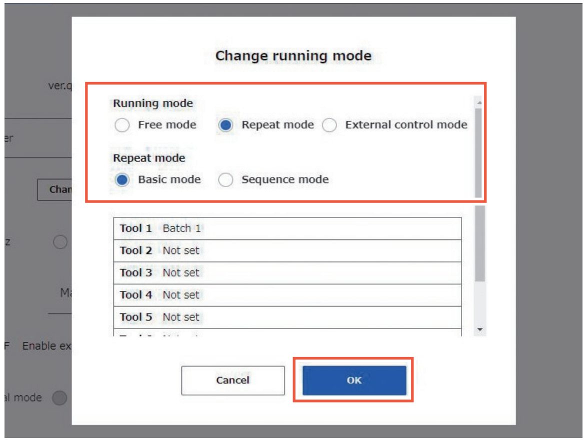
Channel Manual Channel 1

External access point OFF Enable external access point

WLAN mode ● Normal mode ○ Bridge mode

3 **Sélectionnez un « Running mode » et cliquez sur [OK].**
Le mode de fonctionnement est réglé.
Sélectionnez un mode de fonctionnement entre « Free mode », « Repeat mode », et « External control mode ».
Pour le « Repeat mode », sélectionnez « Basic mode » ou « Sequence mode ».

Se reporter à P46 à 49


Change running mode
Cancel
OK

Running mode
○ Free mode ● Repeat mode ○ External control mode

Repeat mode
● Basic mode ○ Sequence mode

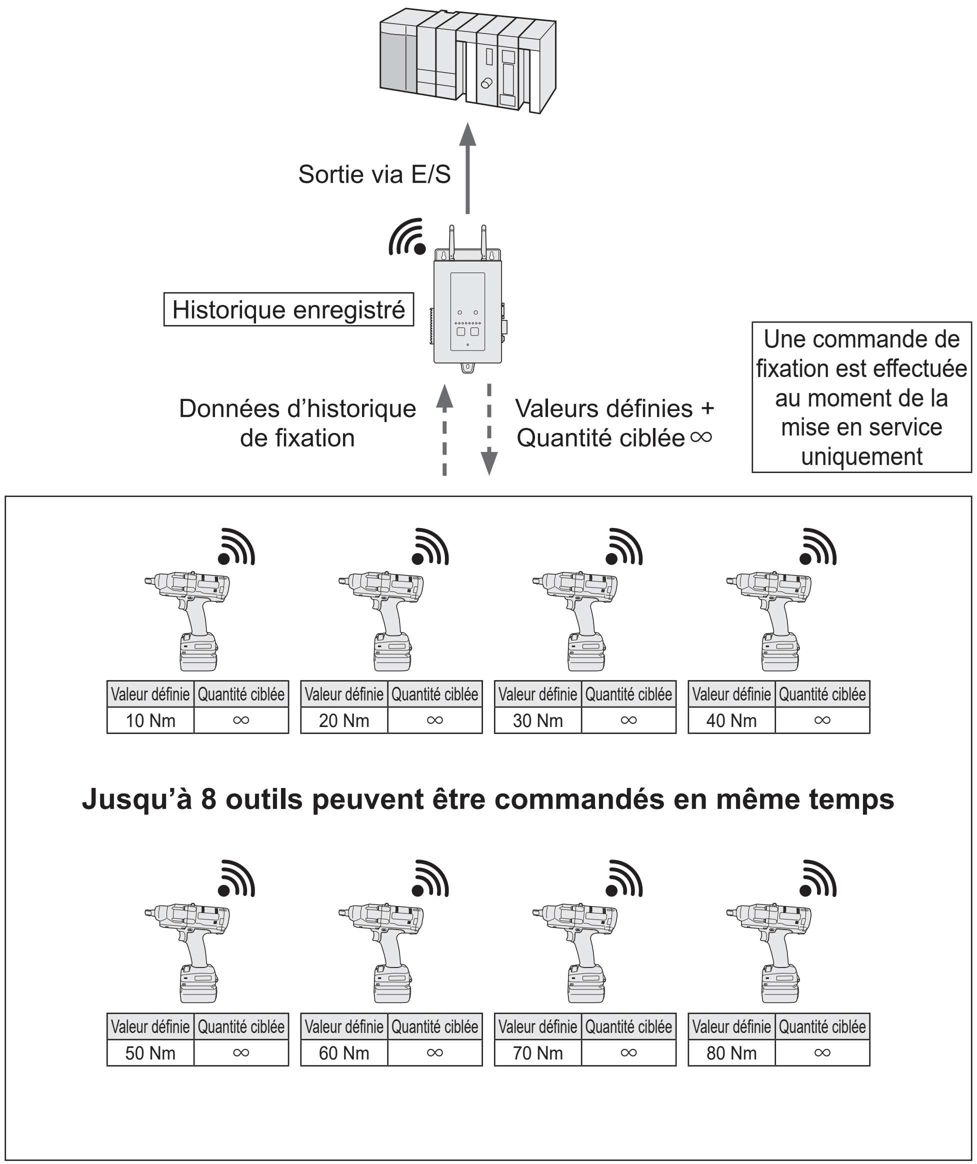
Tool 1	Batch 1
Tool 2	Not set
Tool 3	Not set
Tool 4	Not set
Tool 5	Not set

* Enregistrez le « Parameter » avant de régler sur « Free mode ».
* Enregistrez un « Batch/Job » avant de régler sur « Repeat mode ».

RÉGLAGE DU MODE DE COMMANDE DE FIXATION (suite)

■ Free mode

Ce mode permet une fixation inconditionnelle sans spécifier la quantité à fixer.
Les outils utilisent des paramètres pré-enregistrés pour la fixation.
Jusqu'à 8 outils peuvent effectuer une opération indépendante.
Les paramètres de sortie E/S sont activés.
* Utilisez le mode lorsque la quantité fixée est comptée par un appareil externe.


Sortie via E/S
Historique enregistré
Données d'historique de fixation
Valeurs définies + Quantité ciblée ∞
Une commande de fixation est effectuée au moment de la mise en service uniquement

Valeur définie	Quantité ciblée
10 Nm	∞

Valeur définie	Quantité ciblée
20 Nm	∞

Valeur définie	Quantité ciblée
30 Nm	∞

Valeur définie	Quantité ciblée
40 Nm	∞

Jusqu'à 8 outils peuvent être commandés en même temps

Valeur définie	Quantité ciblée
50 Nm	∞

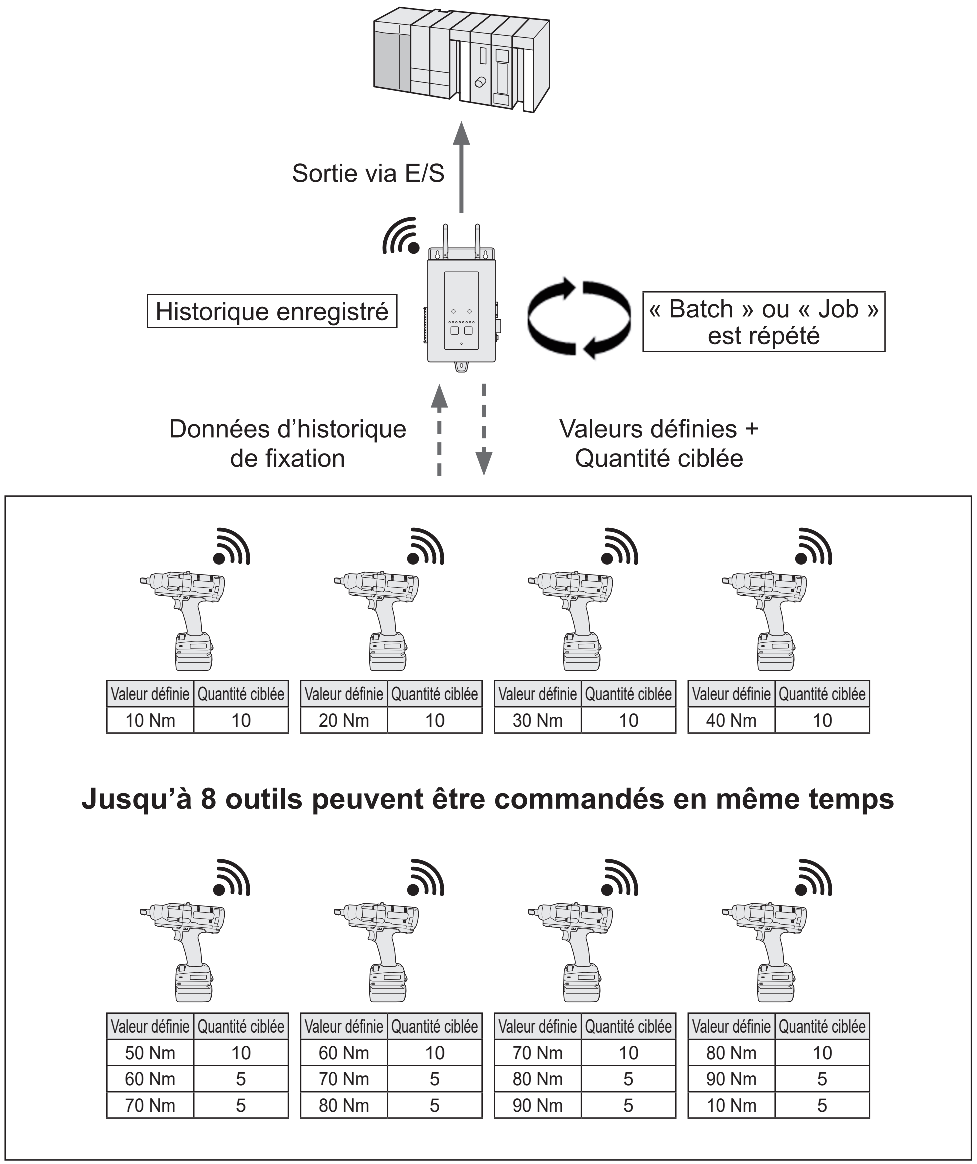
Valeur définie	Quantité ciblée
60 Nm	∞

Valeur définie	Quantité ciblée
70 Nm	∞

Valeur définie	Quantité ciblée
80 Nm	∞

■ Repeat mode (Basic mode)

Ce mode répète un processus de « Batch » ou de « Job ».
Les outils utilisent des réglages de « Batch » ou de « Job » pour la fixation.
Jusqu'à 8 outils peuvent effectuer une opération indépendante.
Les paramètres de sortie E/S sont activés.


Sortie via E/S
Historique enregistré
« Batch » ou « Job » est répété
Données d'historique de fixation
Valeurs définies + Quantité ciblée

Valeur définie	Quantité ciblée
10 Nm	10

Valeur définie	Quantité ciblée
20 Nm	10

Valeur définie	Quantité ciblée
30 Nm	10

Valeur définie	Quantité ciblée
40 Nm	10

Jusqu'à 8 outils peuvent être commandés en même temps

Valeur définie	Quantité ciblée
50 Nm	10
60 Nm	5
70 Nm	5

Valeur définie	Quantité ciblée
60 Nm	10
70 Nm	5
80 Nm	5

Valeur définie	Quantité ciblée
70 Nm	10
80 Nm	5
90 Nm	5

Valeur définie	Quantité ciblée
80 Nm	10
90 Nm	5
10 Nm	5

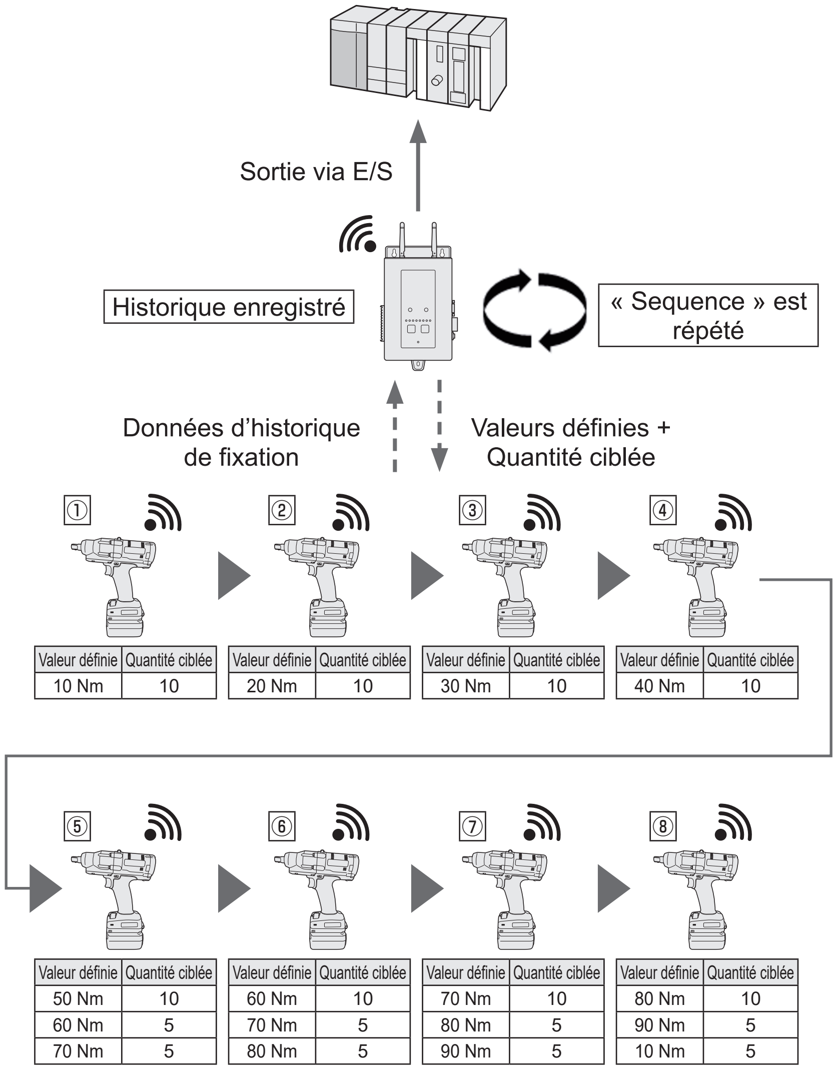
■ Repeat mode (Sequence mode)

Ce mode répète un processus de « Sequence » dans lequel les outils disponibles sont contrôlés dans l'ordre.

Les outils utilisent des réglages de « Sequence » pré-enregistrés pour la fixation séquentielle.

Jusqu'à 10 étapes peuvent être réglées. Une séquence prend en charge jusqu'à 8 outils, mais permet à un seul outil de fonctionner à la fois.

Les paramètres de sortie E/S sont activés.


Sortie via E/S
Historique enregistré
« Sequence » est répété
Données d'historique de fixation
Valeurs définies + Quantité ciblée
①
②
③
④
⑤
⑥
⑦
⑧

①

Valeur définie	Quantité ciblée
10 Nm	10

②

Valeur définie	Quantité ciblée
20 Nm	10

③

Valeur définie	Quantité ciblée
30 Nm	10

④

Valeur définie	Quantité ciblée
40 Nm	10

⑤

Valeur définie	Quantité ciblée
50 Nm	10
60 Nm	5
70 Nm	5

⑥

Valeur définie	Quantité ciblée
60 Nm	10
70 Nm	5
80 Nm	5

⑦

Valeur définie	Quantité ciblée
70 Nm	10
80 Nm	5
90 Nm	5

⑧

Valeur définie	Quantité ciblée
80 Nm	10
90 Nm	5
10 Nm	5

■ External control mode

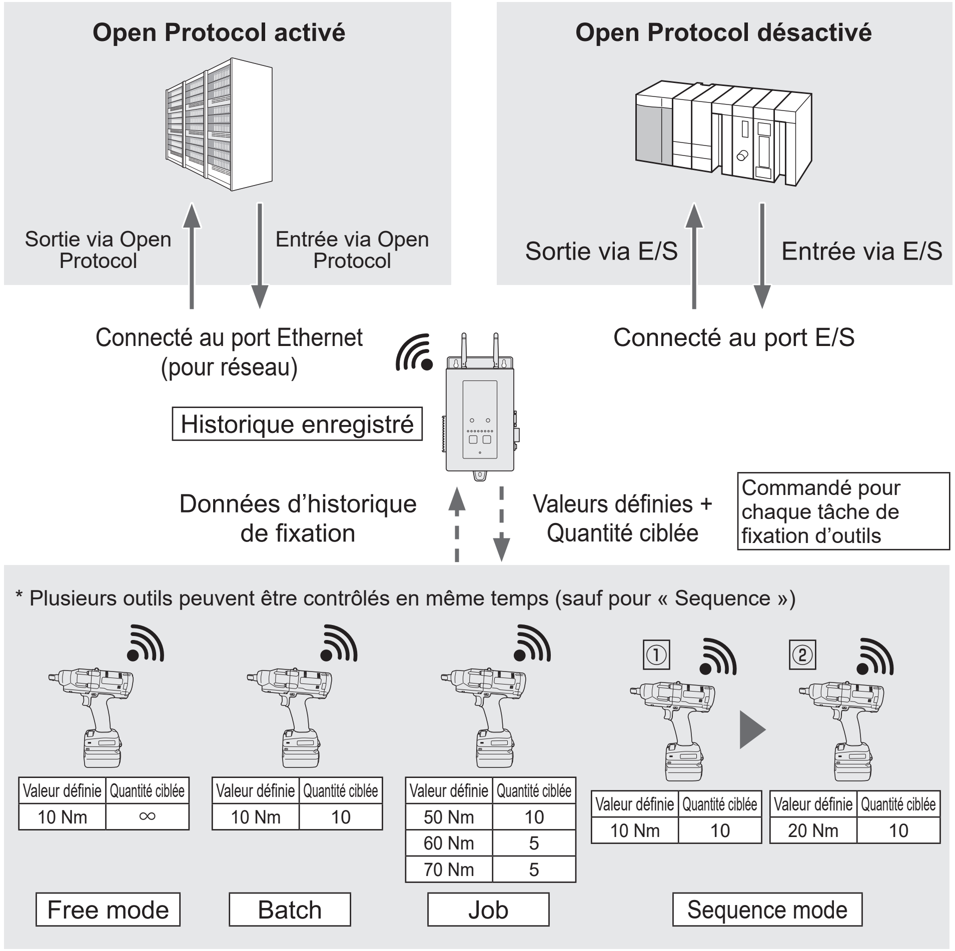
Ce mode permet le contrôle de la fixation commandé par un appareil externe (système hôte). Les 2 types de contrôle suivants sont pris en charge.

● Commande via Open Protocol (avec Open Protocol activé)

La fixation est contrôlée via Open Protocol par un système hôte.
Jusqu'à 8 outils peuvent être contrôlés indépendamment.
* Les contrôles de tâche et de séquence ne sont pas pris en charge.

● Contrôle via E/S (avec Open Protocol activé)

La fixation est commandée par les entrées via le port E/S d'un périphérique externe.
Jusqu'à 8 outils peuvent être contrôlés indépendamment ou séquentiellement.


Open Protocol activé
Sortie via Open Protocol
Entrée via Open Protocol
Open Protocol désactivé
Sortie via E/S
Entrée via E/S
Connecté au port Ethernet (pour réseau)
Connecté au port E/S
Historique enregistré
Données d'historique de fixation
Valeurs définies + Quantité ciblée
Commandé pour chaque tâche de fixation d'outils
①
②
Free mode
Batch
Job
Sequence mode

* Plusieurs outils peuvent être contrôlés en même temps (sauf pour « Sequence »)

Free mode

Valeur définie	Quantité ciblée
10 Nm	∞

Batch

Valeur définie	Quantité ciblée
10 Nm	10

Job

Valeur définie	Quantité ciblée
50 Nm	10
60 Nm	5
70 Nm	5

Sequence mode ①

Valeur définie	Quantité ciblée
10 Nm	10

Sequence mode ②

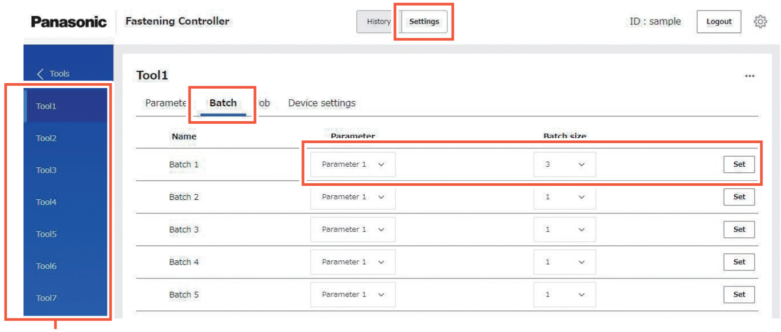
Valeur définie	Quantité ciblée
20 Nm	10

* Si le contrôleur s'éteint pendant la fixation, celle-ci ne reprend pas après l'activation du contrôleur. La fixation recommence lorsqu'elle est commandée par un périphérique externe.

* Les paramètres de sortie E/S sont activés.

Création (configuration) d'un lot

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « Connected tool ». Dans l'écran « Connected tool », cliquez sur le numéro d'outilsouhaité.
Dans l'écran du numéro d'outil, sélectionnez l'onglet « Batch » et effectuez les réglages. Sélectionnez un paramètre dans le menu déroulant « Parameter » et configurez « Batch size »(quantité à fixer, jusqu'à 99). Cliquez sur [Set] pour définir les valeurs pour « Repeat mode (Basic mode) ».
* Pour changer l'outil, sélectionnez celui souhaité dans la liste d'outils.
* Jusqu'à 5 lots peuvent être enregistrés.

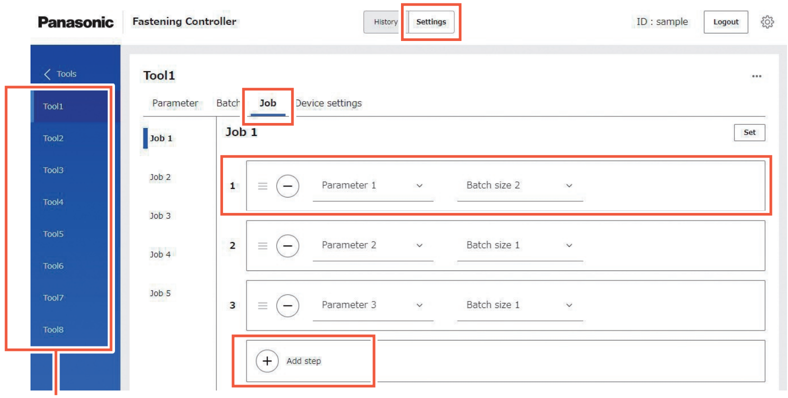

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
Paramete
Batch
ob
Device settings

Name	Parameter	Batch size	
Batch 1	Parameter 1	3	Set
Batch 2	Parameter 1	1	Set
Batch 3	Parameter 1	1	Set
Batch 4	Parameter 1	1	Set
Batch 5	Parameter 1	1	Set

Liste d'outils

Création (configuration) d'une tâche

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « Connected tool ». Dans l'écran « Connected tool », cliquez sur le numéro d'outilsouhaité.
Dans l'écran du numéro d'outil, sélectionnez l'onglet « Job » et effectuez les réglages. Sélectionnez un paramètre dans le menu déroulant « Parameter » et configurez « Batch size »(quantité à fixer, jusqu'à 99). Cliquez sur [Set] pour définir les valeurs pour « Repeat mode (Basic mode) ».
* Jusqu'à 10 étapes peuvent être enregistrées.
* Pour changer l'outil, sélectionnez celui souhaité dans la liste d'outils.
* Jusqu'à 5 tâches peuvent être enregistrées.

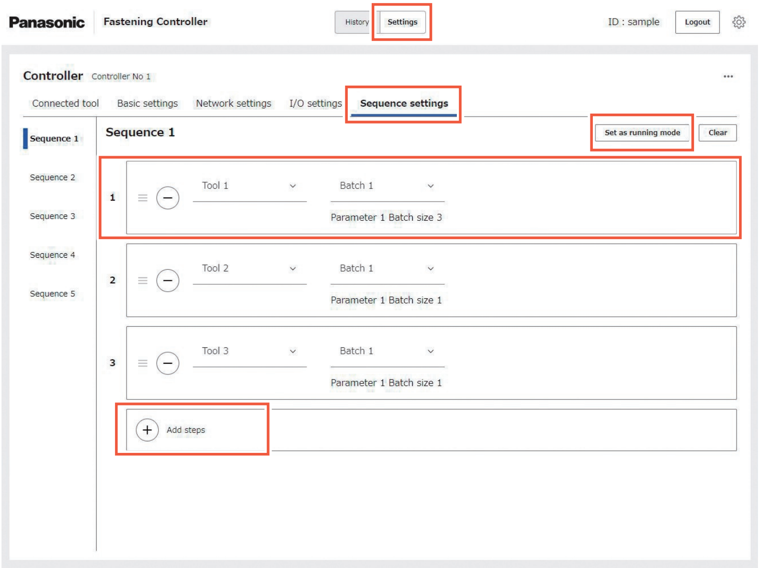

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Job 1
Job 2
Job 3
Job 4
Job 5
Job 1
Set
Add step

1 Parameter 1 Batch size 2
2 Parameter 2 Batch size 1
3 Parameter 3 Batch size 1

Liste d'outils

Création (configuration) d'une séquence

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « Sequence settings ».
Dans l'écran « Sequence settings », sélectionnez un outil dans le menu déroulant « Tool » et configurez « Batch » ou « Job ».
Cliquez sur [Set as running mode] pour régler les valeurs pour « Repeat mode (Sequence mode) ».
* Jusqu'à 5 séquences peuvent être enregistrées.
* Jusqu'à 10 étapes peuvent être enregistrées.
* Le même outil peut être utilisé plus d'une fois dans une séquence.

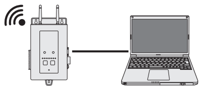
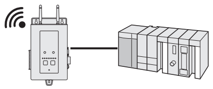
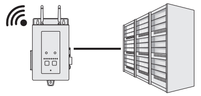

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Sequence 1
Sequence 2
Sequence 3
Sequence 4
Sequence 5
Sequence 1
Set as running mode
Clear
Add steps

1 Tool 1 Batch 1 Parameter 1 Batch size 3
2 Tool 2 Batch 1 Parameter 1 Batch size 1
3 Tool 3 Batch 1 Parameter 1 Batch size 1

RACCORDEMENT À UN APPAREIL EXTERNE

Types d'appareils externes pris en charge

Le contrôleur prend en charge les types de périphériques externes suivants.

Fonction	PC de configuration	API	Système hôte du client
Illustration			
Méthode de communication	Ethernet	E/S	Ethernet
Protocole de communication	http/https	— (Signal MARCHE/ ARRÊT seulement)	Protocole ouvert
Utilisation principale	• Affichage et stockage de l'historique de fixation • Modification des paramètres	• Signaux de sortie terminée et de défaillance • Changement de l'ordre de fixation	• Exportation de l'historique de fixation • Changement de l'ordre de fixation
Données pouvant être exportées	• Numéros de série d'outils • Temps • Résultats d'exécution et d'échec • Valeurs de couple, angles, délais de fixation • Données de forme d'onde	• Résultats d'exécution et d'échec • Batch/job/sequence terminer • Batch/job/sequence sélectionné • Outil actif	• Numéros de série d'outils • Temps • Résultats d'exécution et d'échec • Valeurs de couple, angles, délais de fixation • Données de forme d'onde
Commutation de l'ordre de fixation	—	• Batch/job/sequence sélectionné	• Parameter/batch sélectionné
Autre	S'affiche dans un navigateur Web. Microsoft Edge est recommandé.	8 ports chacun pour l'entrée et la sortie	Pour les commandes prises en charge, voir « Commandes compatibles avec Open Protocol ». **Se reporter à P61** Les séquences de contrôle doivent être examinées respectivement.

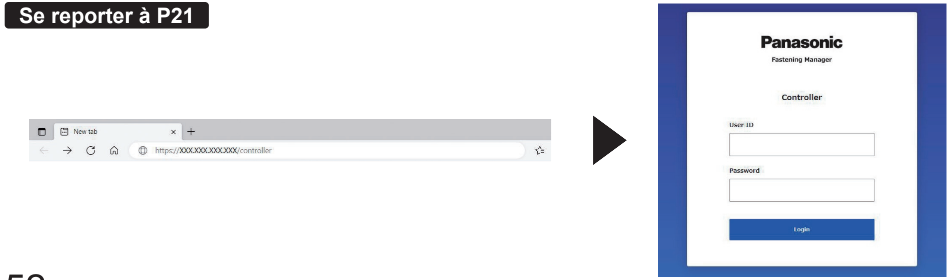
Connexion au PC de configuration dans un emplacement distant

Le PC de configuration avec le certificat installé peut se connecter à distance à des contrôleurs.

Notez qu'un seul accès à la fonction de configuration est accepté à la fois.

Pour vous connecter, saisissez l'adresse IP du contrôleur dans un navigateur Web.

Se reporter à P21


New tab

https://XXX.XXX.XXX.XXX/controller

Panasonic

Fastening Manager

Controller

User ID

Password

RACCORDEMENT À UN APPAREIL EXTERNE VIA E/S

Connexion via E/S

Vous pouvez attribuer des commandes prises en charge à 8 ports d'entrée et 8 ports de sortie comme vous le souhaitez.

Attribuez-les dans l'écran « I/O settings ».

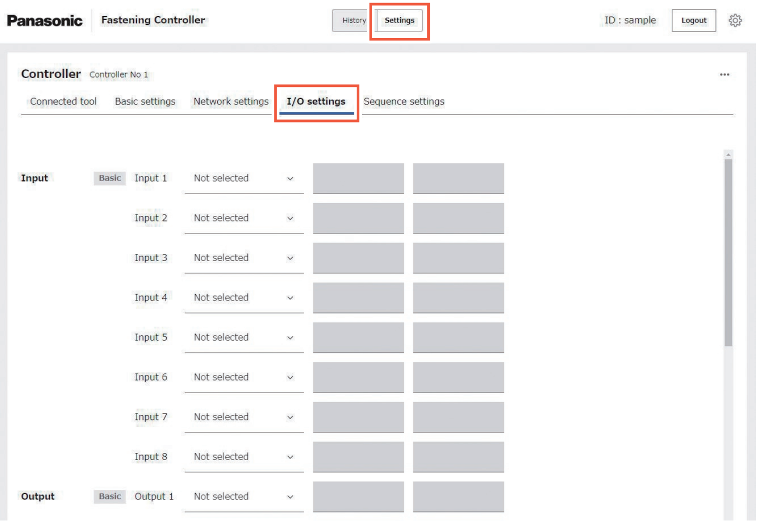
Vous trouverez ci-dessous les commandes qui peuvent être attribuées aux ports.

Entrée	Commande prise en charge
1	Batch (Outil 1 à 5) Job (Outil 1 à 5) Sequence (1 à 5) Batch reset (1 à 8) Reset Suspend tool (1 à 8) Suspend controller
2	
3	
4	
5	
6	
7	
8	

Sortie	Commande prise en charge
1	OK (Outil 1 à 8) NOK (Outil 1 à 8) Batch complete (Outil 1 à 5) Job complete (Outil 1 à 5) Sequence complete (1 à 5) Tool active (Outil 1 à 8) Batch selected (Outil 1 à 5) Job selected (Outil 1 à 5) Sequence selected (1 à 5)
2	
3	
4	
5	
6	
7	
8	

Configuration E/S

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « I/O settings ».



Input Basic Input 1 Not selected

Input 2 Not selected

Input 3 Not selected

Input 4 Not selected

Input 5 Not selected

Input 6 Not selected

Input 7 Not selected

Input 8 Not selected

Output Basic Output 1 Not selected

* Il est possible d'attribuer un comportement ou un événement non encore enregistré. (Excepté pour la sélection de tâche et la sélection de séquence)

Commandes attribuées aux ports d'entrée

Vous trouverez ci-dessous les commandes qui peuvent être attribuées aux ports d'entrée. Lorsqu'un signal d'un appareil externe est entré dans l'un des ports, la commande attribuée est exécutée.

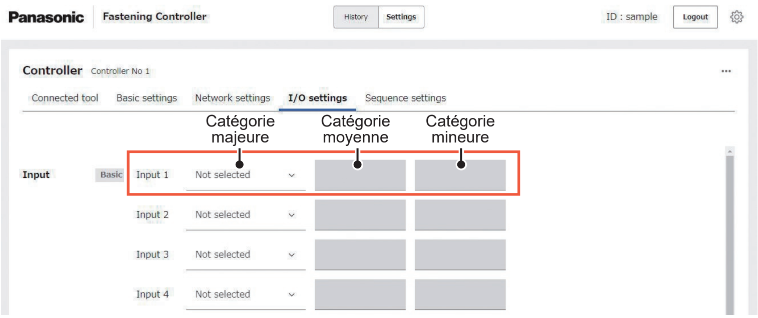
Catégorie majeure (comportement)	Catégorie moyenne (Outil)	Catégorie mineure (N° de lot, etc.)
Batch	Outil 1 à 8	1-5
Job	Outil 1 à 8	1-5
Sequence	—	1-5
Suspend tool[*1]	Outil 1 à 8	—
Suspend controller[*1]	—	—
Batch reset	Outil 1 à 8	—
Reset	—	—

*1 Activé uniquement lorsque le signal d'entrée est maintenu.

Remarques lorsque la commande « Suspend tool » ou « Suspend controller » est entrée

- Lorsque la commande « Suspend controller » est activée, aucun ordre de fixation n'est accepté.
- Pour le numéro d'outil avec la commande « Suspend tool » activée, aucune commande de fixation « Batch » ou « Job » n'est acceptée.
- Pour les numéros d'outil autres qu'avec la commande « Suspend tool » activée, une commande de fixation « Batch » ou « Job » est acceptée.
- Lorsque la commande « Suspend tool » est activée, aucune commande de fixation « Sequence » n'est acceptée.
  À ce stade, le processus continue jusqu'à ce qu'il atteigne l'outil avec la commande « Suspend tool » activée.
- « Batch reset » et « Reset » sont traités de la même manière qu'une commande de fixation.

Après avoir sélectionné un comportement dans la catégorie majeure, sélectionnez un outil puis un numéro (par exemple, numéro de lot) si nécessaire.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Input 1
Not selected
Input 2
Not selected
Input 3
Not selected
Input 4
Not selected

Catégorie majeure
Catégorie moyenne
Catégorie mineure

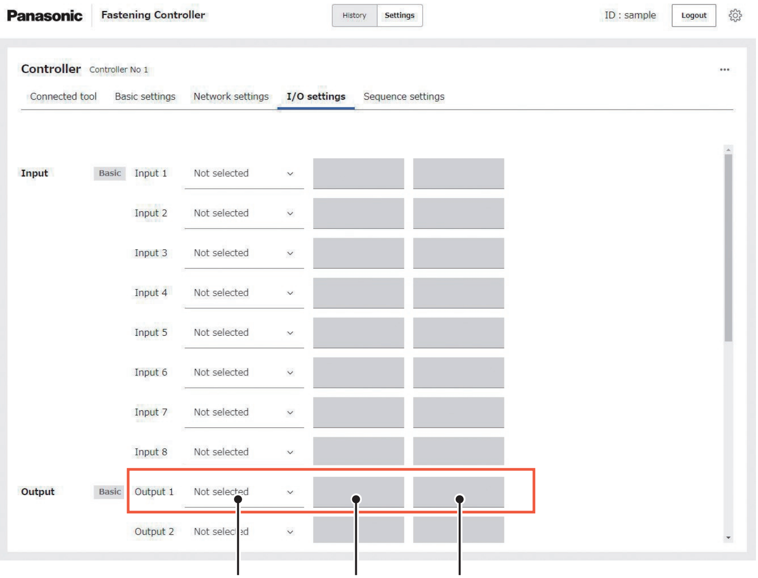
* Aucune action n'est effectuée si un signal non attribué est entré. (Aucune erreur ne se produit)

Commandes attribuées aux ports de sortie

Vous trouverez ci-dessous les commandes qui peuvent être attribuées aux ports de sortie.
Lorsqu'un événement pertinent est survenu, le contrôleur émet un signal du port correspondant à un périphérique externe tel que spécifié par la commande attribuée.

Catégorie majeure (Événement)	Catégorie moyenne (Outil)	Catégorie mineure (N° de lot, etc.)
OK	Outil 1 à 8	—
NOK	Outil 1 à 8	—
Batch complete	Outil 1 à 8	1-5
Job complete	Outil 1 à 8	1-5
Sequence complete	—	1-5
Tool active	Outil 1 à 8	—
Batch selected	Outil 1 à 8	1-5
Job selected	Outil 1 à 8	1-5
Sequence selected	—	1-5

Après avoir sélectionné un événement dans la catégorie majeure, sélectionnez un outil puis un numéro (par exemple, numéro de lot) si nécessaire.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Input 1
Not selected
Input 2
Not selected
Input 3
Not selected
Input 4
Not selected
Input 5
Not selected
Input 6
Not selected
Input 7
Not selected
Input 8
Not selected
Output
Basic
Output 1
Not selected
Output 2
Not selected

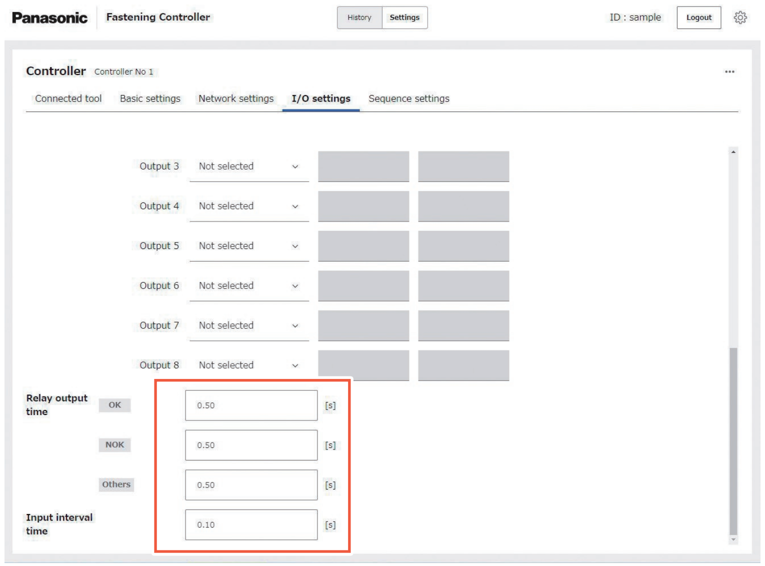
Catégorie majeure
Catégorie moyenne
Catégorie mineure

* Si le contrôleur s'éteint pendant l'exécution d'une commande de sortie, le processus ne reprend pas après la mise sous tension du contrôleur. (Veuillez noter que les données d'historique de fixation sont enregistrées.)

RACCORDEMENT À UN APPAREIL EXTERNE VIA E/S (suite)

Autres paramètres

Vous pouvez définir d’autres paramètres associés à l’E/S comme indiqué ci-dessous.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Output 3: Not selected
Output 4: Not selected
Output 5: Not selected
Output 6: Not selected
Output 7: Not selected
Output 8: Not selected
Relay output time OK: 0.50 [s]
NOK: 0.50 [s]
Others: 0.50 [s]
Input interval time: 0.10 [s]

Relay output time (OK)

Sélectionnez le délai d’émission par le relais du signal d’exécution de fixation.

[Par défaut]	0.5 s
[Plage de réglage]	0.01 s à 10 s

Relay output time (NOK)

Sélectionnez le délai d’émission par le relais du signal d’échec de fixation.

[Par défaut]	0.5 s
[Plage de réglage]	0.01 s à 10 s

Relay output time (Others)

Sélectionnez le délai d’émission par le relais de tout signal autre que ceux d’exécution et d’échec de fixation.

[Par défaut]	0.5 s
[Plage de réglage]	0.01 s à 10 s

Input interval time

Sélectionnez le délai pendant lequel les signaux d’entrée successifs ne sont pas comptés (acceptés).
Configurez de manière à éviter un double comptage causé par le bruit, etc.

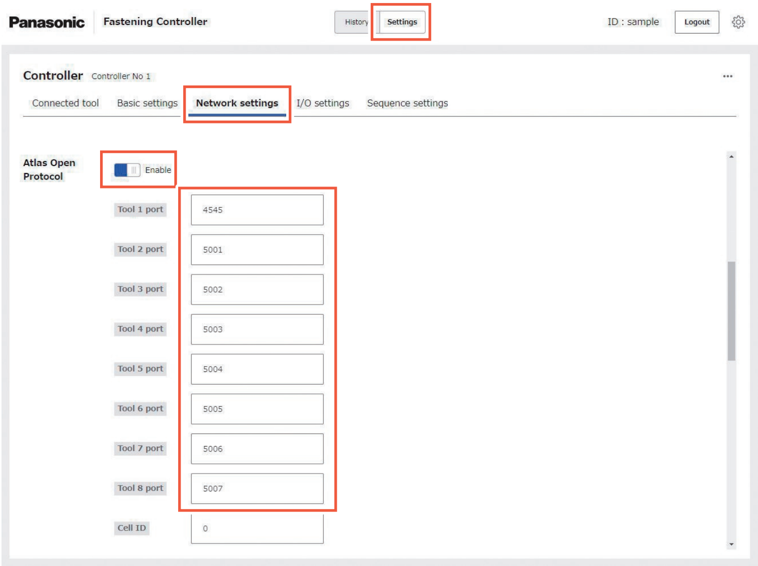
[Par défaut]	0.1 s
[Plage de réglage]	0.01 s à 10 s

RACCORDEMENT À UN APPAREIL EXTERNE VIA UN PROTOCOLE OUVERT

Connexion via la communication Open Protocol

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Network settings ».

Activez « Atlas Open Protocol ».
Configurez les numéros de port des outils utilisés respectivement.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Atlas Open Protocol: Enable
Tool 1 port: 4545
Tool 2 port: 5001
Tool 3 port: 5002
Tool 4 port: 5003
Tool 5 port: 5004
Tool 6 port: 5005
Tool 7 port: 5006
Tool 8 port: 5007
Cell ID: 0

Tool port

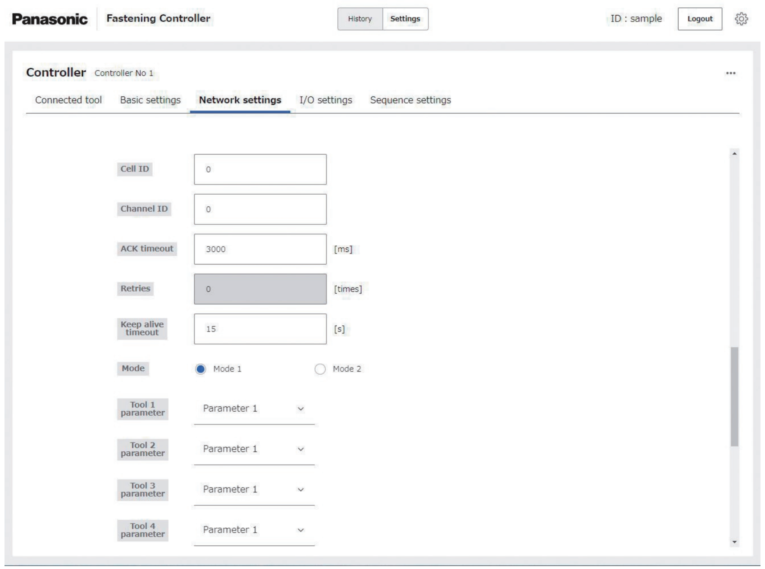
Attribuez un numéro de port pour la communication Open Protocol à chaque outil.

[Par défaut]	Outil 1 - 4545, Outil 2 à 8 - 5001 à 5007
[Plage de réglage]	Outil 1 à 8 - 1024 à 49151

RACCORDEMENT À UN APPAREIL EXTERNE VIA UN PROTOCOLE OUVERT (suite)

Autres paramètres

Configurez d’autres éléments si nécessaire.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID 0
Channel ID 0
ACK timeout 3000 [ms]
Retries 0 [times]
Keep alive timeout 15 [s]
Mode ● Mode 1 ○ Mode 2
Tool 1 parameter Parameter 1
Tool 2 parameter Parameter 1
Tool 3 parameter Parameter 1
Tool 4 parameter Parameter 1

Cell ID

Définissez l’ID de la cellule.
[Par défaut] 0
[Plage de réglage] 0 à 9999

Channel ID

Définissez l’ID du canal.
[Par défaut] 0
[Plage de réglage] 0 à 99

ACK timeout

Définissez le délai d’attente d’une réponse à un message de requête émise par le contrôleur.
[Par défaut] 3000 ms
[Plage de réglage] 100 ms à 30000 ms

Retries

Définissez le nombre d’envois répétés d’un message de requête par le contrôleur.
[Par défaut] 0 times
[Plage de réglage] Non sélectionnable (Fixe)

Keep alive timeout

Définissez le délai pour déterminer l’occurrence de la déconnexion après la dernière communication avec un système hôte.
[Par défaut] 15 s
[Plage de réglage] 1 s à 60 s

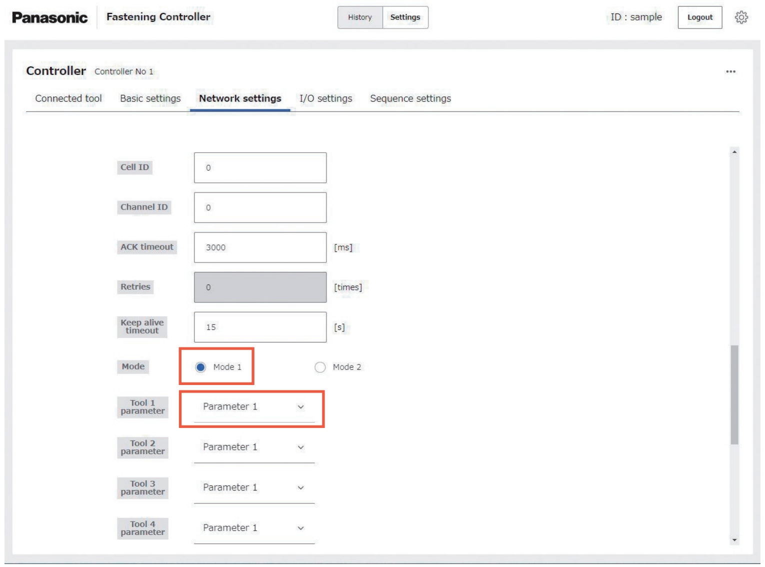
Mode

Configurez le mode de fonctionnement.
Mode 1 : Fixation inconditionnelle avec paramètres pré-enregistrés
Mode 2 : Fixation avec paramètres commandés par un système hôte
[Par défaut] Mode 1
[Plage de réglage] Mode 1/Mode 2

Attribution des paramètres de fixation (Mode 1)

Le « Mode 1 » (sans paramètres commandés) nécessite de pré-enregistrer les paramètres de fixation sur les outils.

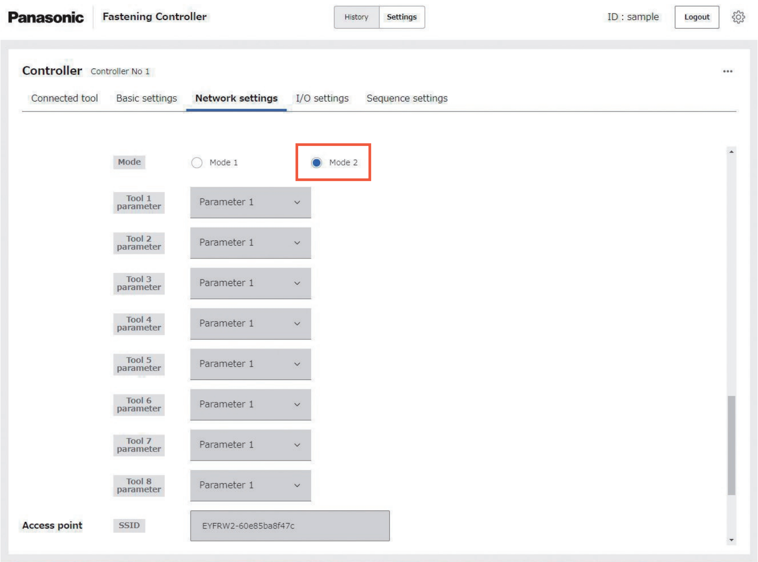
Sélectionnez un paramètre dans le menu déroulant comme indiqué ci-dessous.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID 0
Channel ID 0
ACK timeout 3000 [ms]
Retries 0 [times]
Keep alive timeout 15 [s]
Mode ● Mode 1 ○ Mode 2
Tool 1 parameter Parameter 1
Tool 2 parameter Parameter 1
Tool 3 parameter Parameter 1
Tool 4 parameter Parameter 1

Attribution des paramètres de fixation (Mode 2)

La fixation peut être commandée avec une commande MID 0018 par un périphérique externe.
Vous pouvez spécifier « Parameter » ou « Batch » dans une commande de fixation.



Mode: ○ Mode 1 ● Mode 2
Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1
Tool 5 parameter: Parameter 1
Tool 6 parameter: Parameter 1
Tool 7 parameter: Parameter 1
Tool 8 parameter: Parameter 1
Access point SSID: EYFRW2-60e85ba8f47c

■ Pour spécifier « Parameter » dans une commande de fixation

Mettez « 0 » dans le chiffre des centaines de l’identifiant.
Les chiffres des dizaines et des unités indiquent un numéro de paramètre.

Exemple : ID du paramètre 1 : 001
ID du paramètre 5 : 005

■ Pour spécifier « Batch » dans une commande de fixation

Mettez « 1 » dans le chiffre des centaines de l’identifiant.
Les chiffres des dizaines et des unités indiquent un numéro de lot.

Exemple : ID du lot 1 : 101
ID du lot 5 : 105

* « Job » et « Sequence » ne sont pas pris en charge.

■ Commandes compatibles avec Open Protocol

Le contrôleur prend en charge les commandes suivantes.
Pour plus de détails sur les commandes, voir la Spécification Open Protocol.

MID 0001 Application communication start

La révision 1 est prise en charge.
[Contenu] Début de la communication

MID 0002 Application communication start acknowledge

La révision 1 est prise en charge.
[Contenu] Reconnaissance de la communication

MID 0004 Application command error

La révision 1 est prise en charge.
[Contenu] Erreur de commande

MID 0005 Application command accepted

La révision 1 est prise en charge.
[Contenu] Acceptation de la commande

MID 0018 Select parameter set, Dynamic Job included

La révision 1 est prise en charge.
Pour savoir comment attribuer, voir « Attribution des paramètres de fixation (Mode 2) ».
Se reporter à P60
[Contenu] Ordre de configuration des paramètres

MID 0042 Disable tool

La révision 1 est prise en charge.
[Contenu] Outil désactivé

MID 0043 Enable tool

La révision 1 est prise en charge.
[Contenu] Outil activé

MID 0050 Vehicle ID number download request

La révision 1 est prise en charge.
[Contenu] Demande d’acquisition de l’ID du véhicule

RACCORDEMENT À UN APPAREIL EXTERNE VIA UN PROTOCOLE OUVERT (suite)

MID 0060 Last tightening result data subscribe

Les révisions 1 et 2 sont prises en charge.
[Contenu] Enregistrement final des données de résultat de fixation

MID 0061 Last tightening result data

Les révisions 1 et 2 sont prises en charge.
[Contenu] Téléchargement du résultat de fixation

MID 0062 Last tightening result data acknowledge

Les révisions 1 et 2 sont prises en charge.
[Contenu] Accusé de réception du téléchargement de résultat de fixation

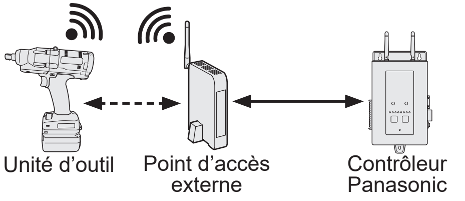
MID 9999 Keep alive message

La révision 1 est prise en charge.
[Contenu] Vérification de disponibilité

RACCORDEMENT VIA UN POINT D’ACCÈS EXTERNE

Configuration

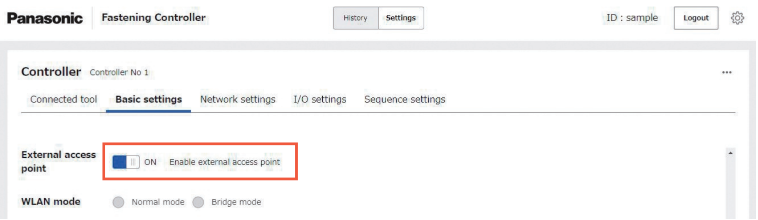
Le contrôleur peut se connecter aux outils via la communication sans fil à l’aide d’un point d’accès externe au lieu du point d’accès intégré.
Le contrôleur peut contrôler les outils quelque soit l’endroit où il est installé.
Connectez le point d’accès et le contrôleur au réseau local câblé.
* La couverture sans fil et les performances changent en fonction du point d’accès utilisé.

Connexion	Méthode de communication	Remarque
 Unité d’outil Point d’accès externe Contrôleur Panasonic	Ethernet	• En mode de sélection, sélectionnez le point d’accès interne ou le point d’accès externe. • Nombre maximum d’outils connectés : 8 * Pour le point d’accès interne ou le point d’accès externe

Procédure de réglage

1 **Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut, sélectionnez l’onglet « Basic settings » et réglez « External access point » sur « ON ».**

* « WLAN mode » est désactivé lorsque « External access point » est activé.

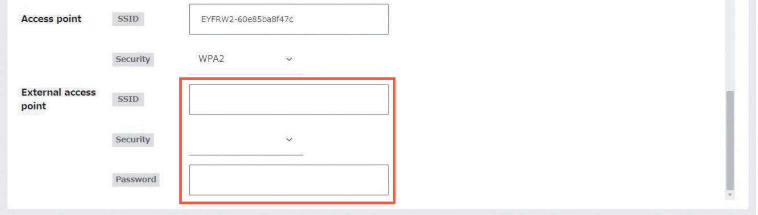


External access point: ON Enable external access point

WLAN mode: ○ Normal mode ○ Bridge mode

2 **Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Network settings ». Dans « External access point », configurez « SSID », « Security » et « Password ».**

* Vous ne pouvez enregistrer qu’un seul SSID dans le contrôleur. (Vous ne pouvez pas enregistrer différents SSID pour différents outils)
* Voir les Instructions d’utilisation de votre point d’accès externe.
* Effectuez ce réglage avant de commencer l’enregistrement d’appariement avec les outils.
* Configurez l’adresse IP de l’outil avant de commencer l’enregistrement d’appariement.



Access point
SSID: EYFRW2-60e85ba8f47c
Security: WPA2

External access point
SSID:
Security:
Password:

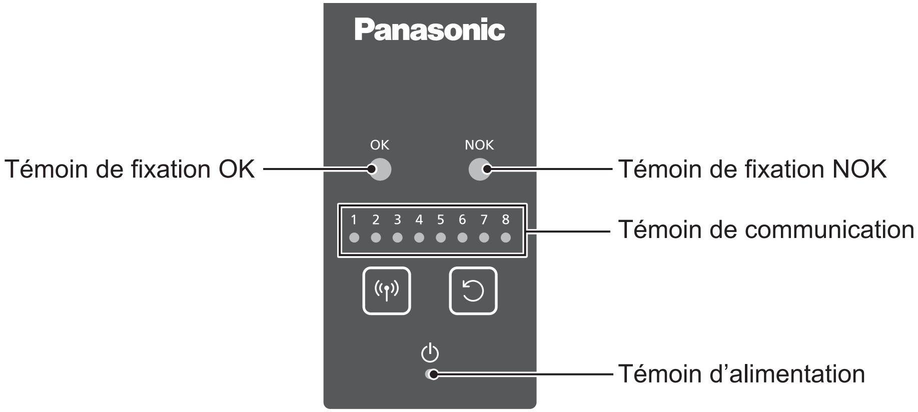
TÉMOINS LUMINEUX ET SIGNAL SONORE

Témoins lumineux et un signal sonore

Les témoins lumineux et l’avertisseur sonore indiquent l’état du contrôleur.

⚠ MISE EN GARDE

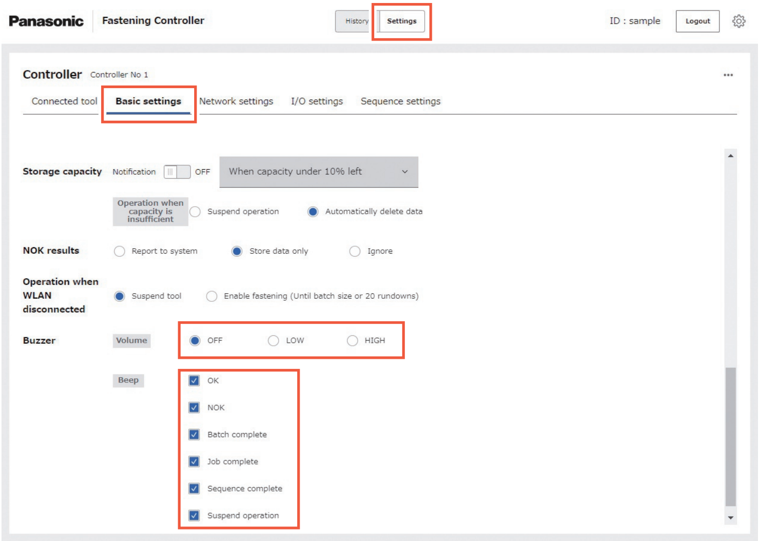
N’éteignez pas l’interrupteur d’alimentation lorsque le témoin clignote pendant le démarrage.
Une initialisation peut être nécessaire.


Panasonic
OK
NOK
1 2 3 4 5 6 7 8
Témoin de fixation OK
Témoin de fixation NOK
Témoin de communication
Témoin d’alimentation

État	Témoin lumineux	Alarme sonore
Mise sous tension	Témoin d’alimentation (jaune) Reste allumé	–
Un outil à apparier sélectionné	Témoin de communication (bleu) Clignote lentement	–
Appariement établi	Témoin de communication (bleu) Clignote rapidement	–
Appariement terminé	Témoin de communication (bleu) Reste allumé	Un bip court ■
Appariement non établi	Témoin de communication (bleu) Clignote très lentement	–
Appariement déconnecté	Témoin de communication (bleu) Éteint	–
Exécution de la fixation	Témoin OK (vert) Reste allumé	Un bip court ■
Échec de la fixation	Témoin NOK (rouge) Reste allumé	Un bip long ▬
Exécution de Batch/job	Témoin OK (vert) Clignote deux fois	Deux bips courts ■ ■
Séquence terminée	Témoin OK (vert) Clignote trois fois	Trois bips courts ■ ■ ■
Erreur	Témoin d’alimentation (jaune) Clignote	Deux bips longs ▬ ▬

Configuration du signal sonore

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Basic settings ».
Dans « Buzzer », réglez « Volume » et « Beep ».

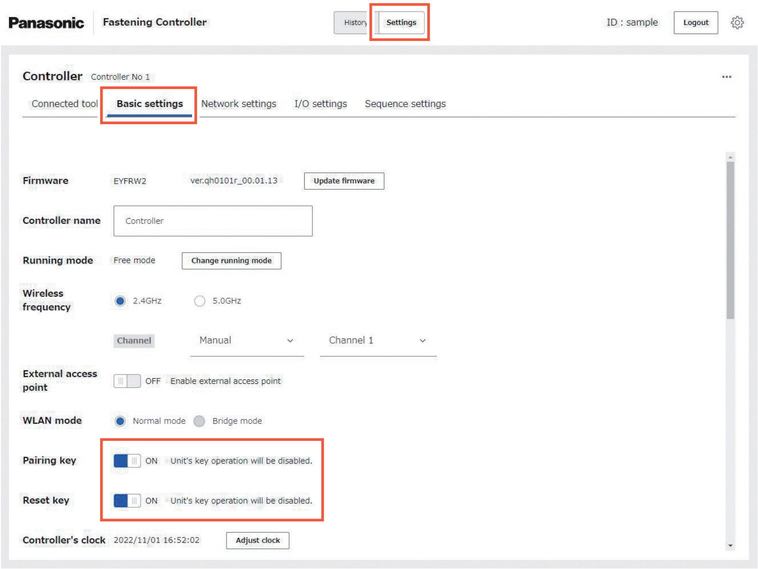

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Storage capacity: Notification OFF; When capacity under 10% left
Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data
NOK results: ○ Report to system ● Store data only ○ Ignore
Operation when WLAN disconnected: ● Suspend tool ○ Enable fastening (Until batch size or 20 rundowns)
Buzzer — Volume: ● OFF ○ LOW ○ HIGH
Beep: ☑ OK ☑ NOK ☑ Batch complete ☑ Job complete ☑ Sequence complete ☑ Suspend operation

Élément	Description
Volume	3 niveaux (OFF / LOW / HIGH) (LOW : 75 dB, HIGH : 85 dB)
Beep	Sélectionné sur le PC de configuration (OK / NOK / Batch complete / Job complete / Sequence complete / Suspend operation)

RÉGLAGE DES TOUCHES DE COMMANDE

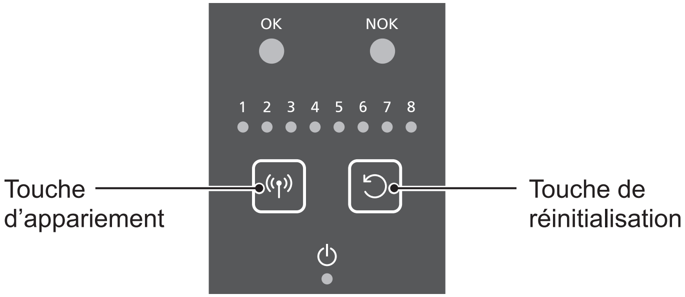
Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Basic settings ».
Dans « Pairing key » et « Reset key », vous pouvez désactiver la touche d’appariement et la touche de réinitialisation sur le boîtier de commande.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode
Wireless frequency ● 2.4GHz ○ 5.0GHz
Channel: Manual, Channel 1
External access point OFF Enable external access point
WLAN mode ● Normal mode ○ Bridge mode
Pairing key ON Unit's key operation will be disabled.
Reset key ON Unit's key operation will be disabled.
Controller's clock 2022/11/01 16:52:02

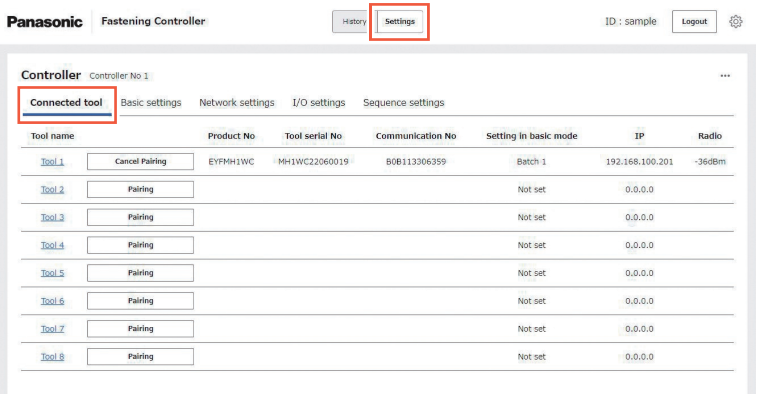
Pairing key
Activez ou désactivez la touche d’appariement sur le boîtier de commande. [Par défaut] ON [Plage de réglage] ON (activé)/OFF (désactivé)

Reset key
Activez ou désactivez la touche de réinitialisation sur le boîtier de commande. [Par défaut] ON [Plage de réglage] ON (activé)/OFF (désactivé)


OK
NOK
1 2 3 4 5 6 7 8
Touche d’appariement
Touche de réinitialisation

VÉRIFICATION DES INFORMATIONS DES OUTILS CONNECTÉS

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool ».
Vous pouvez voir les informations et l’état des outils connectés au contrôleur.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Les éléments ci-dessous sont affichés.

Tool name
Le numéro d’outil enregistré (1 à 8) s’affiche.
Tool serial No
Vous pouvez régler et afficher l’identification de l’unité de l’outil. Par défaut : ID de modèle à 5 chiffres + numéro de série à 8 chiffres (année de fabrication à 2 chiffres + mois à 2 chiffres + lot de production à 4 chiffres)
Product No
Le numéro de produit d’outil s’affiche.
Communication No
L’identification de l’unité (adresse MAC) de la pièce de communication de l’outil est affichée.
Setting in basic mode
Un comportement lorsque le Running mode réglé sur « Repeat mode (Basic mode) » est affiché.
IP
L’adresse IP de l’outil est affichée.
Radio
La puissance d’un signal radio (RSSI) reçu de l’outil est affichée. * La puissance de la dernière communication est affichée. * Elle ne peut pas être mesurée et « 0dBm » apparaît lorsqu’un point d’accès externe est utilisé.

MONITEUR DE TRAVAIL

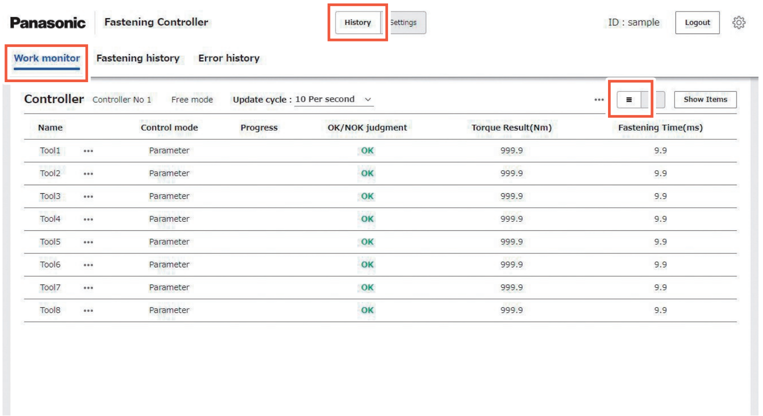
Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [History] en haut et sélectionnez l’onglet « Work monitor ».
Les derniers journaux de l’historique de fixation par outil sont affichés. Vous pouvez les utiliser pour travailler en vous référant aux résultats du travail.

* Plusieurs PC de configuration peuvent les afficher en même temps. (Jusqu’à 8 accès. Les accès multiples depuis le même compte sont acceptés.)
* Pour se connecter avec plus d’un compte, l’utilisation de différents PC est recommandée.
* Pour utiliser plusieurs comptes sur le même ordinateur, il est recommandé d’utiliser des navigateurs Web différents.
* Un seul accès à la fonction de configuration est accepté à la fois.

Changer le format d’affichage

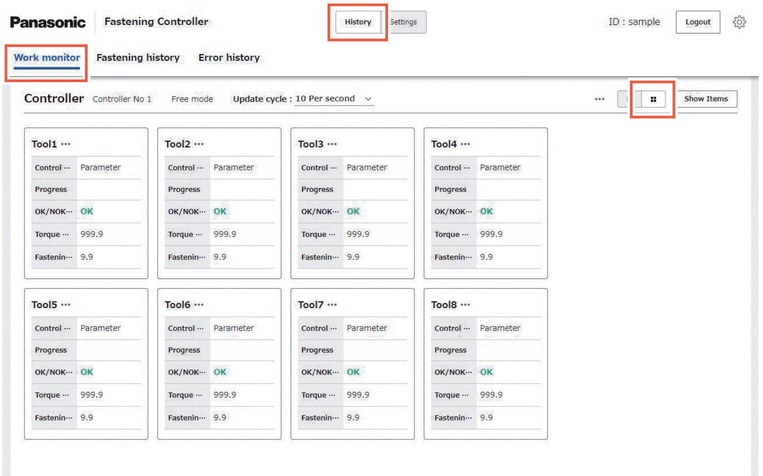
Vous pouvez choisir entre « Affichage de liste » et « Affichage de grille ».
Utilisez l’icône de vue en haut à droite de l’écran.

■ Affichage de liste


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

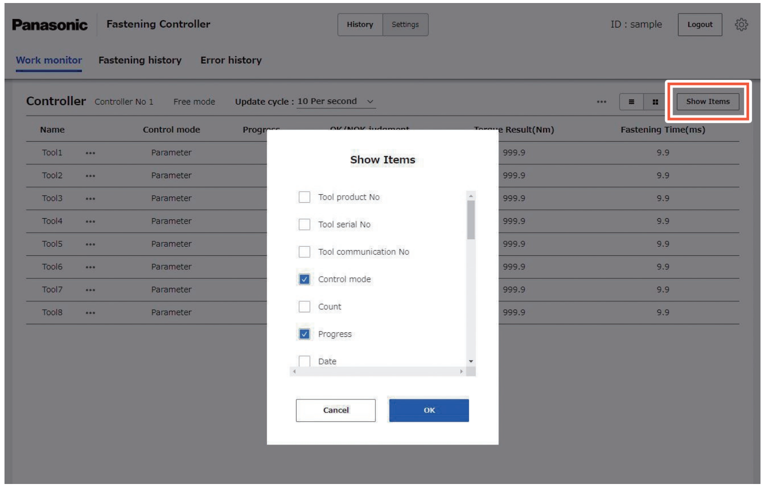
Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 ···	Parameter		OK	999.9	9.9
Tool2 ···	Parameter		OK	999.9	9.9
Tool3 ···	Parameter		OK	999.9	9.9
Tool4 ···	Parameter		OK	999.9	9.9
Tool5 ···	Parameter		OK	999.9	9.9
Tool6 ···	Parameter		OK	999.9	9.9
Tool7 ···	Parameter		OK	999.9	9.9
Tool8 ···	Parameter		OK	999.9	9.9

■ Affichage de grille


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Tool1 ···
Tool2 ···
Tool3 ···
Tool4 ···
Tool5 ···
Tool6 ···
Tool7 ···
Tool8 ···
Control ··· Parameter
Progress
OK/NOK··· OK
Torque ··· 999.9
Fastenin··· 9.9

Sélection des éléments à afficher

Sélectionnez les éléments à afficher à l’aide de « Show Items ».


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
999.9
9.9
Torque Result(Nm)
Fastening Time(ms)

Show Items

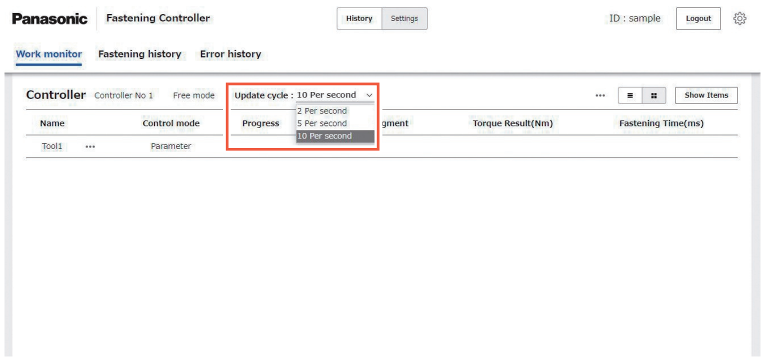
☐ Tool product No
☐ Tool serial No
☐ Tool communication No
☑ Control mode
☐ Count
☑ Progress
☐ Date

Cancel　OK

* Dans « Affichage de liste », vous pouvez faire défiler vers le bas et sélectionner de nombreux éléments à afficher.
* Dans « Affichage de grille », vous pouvez afficher jusqu’à 5 éléments.

Sélection du cycle d’actualisation d’affichage

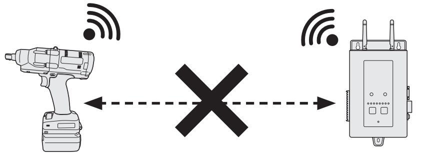
Vous pouvez configurer la mise à jour automatique de l’affichage.
Sélectionnez le cycle de mise à jour entre « 2 per second »,« 5 per second », et « 10 per second » comme ci-dessous.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
2 Per second
5 Per second
10 Per second
Show Items
Name
Control mode
Progress
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter

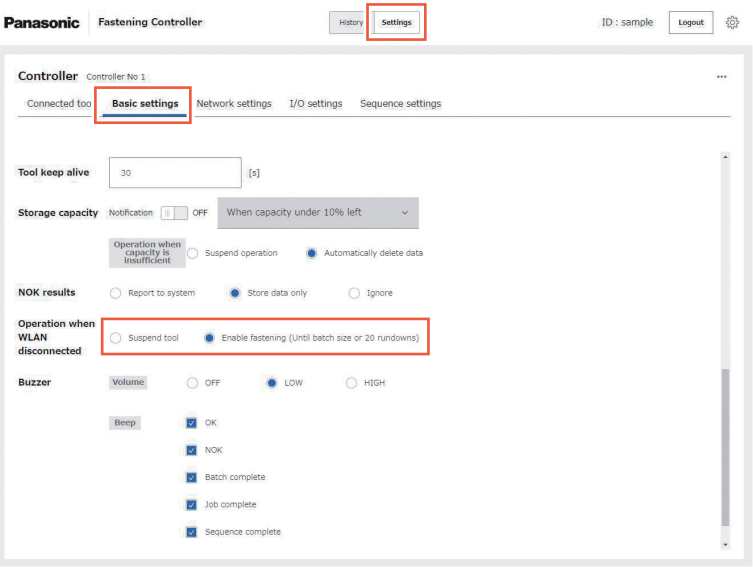
* Si un grand nombre d’outils ou de PC de configuration sont connectés, le cycle de mise à jour de « 10 per second » est recommandé. (Cela peut prendre un certain temps pour traiter les données).

COMPORTEMENT DE L'OUTIL AVEC LA COMMUNICATION SANS FIL DÉCONNECTÉE

Vous pouvez continuer la fixation avec les mêmes paramètres en cas d'interruption temporaire de la communication sans fil entre un outil et le contrôleur.



Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut et sélectionnez l'onglet « Basic settings ».
Si vous configurez « Operation when WLAN disconnected » sur « Suspend tool », la fixation en cours se termine après l'interruption, mais aucune autre fixation n'est effectuée.
Si vous réglez « Enable fastening », aucune autre fixation n'est effectuée une fois que la quantité fixée a atteint la limite supérieure.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected too
Basic settings
Network settings
I/O settings
Sequence settings

Tool keep alive 30 [s]

Storage capacity Notification OFF When capacity under 10% left

Operation when capacity is insufficient ○ Suspend operation ● Automatically delete data

NOK results ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected ○ Suspend tool ● Enable fastening (Until batch size or 20 rundowns)

Buzzer Volume ○ OFF ● LOW ○ HIGH

Beep
☑ OK
☑ NOK
☑ Batch complete
☑ Job complete
☑ Sequence complete

Avec « Enable fastening », les quantités limites supérieures par mode sont les suivantes.

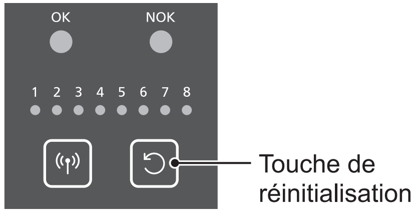
Mode		Comportement
Free mode		Continue la fixation jusqu'à 20 vis
Repeat mode	Basic mode	Continue la fixation jusqu'à la fin du lot ou jusqu'à 20 vis
	Sequence mode	Continue la fixation jusqu'à la fin du lot ou jusqu'à 20 vis * Les outils autres que ceux concernés continuent de fonctionner normalement.
External control mode		Continue la fixation jusqu'à la fin du lot ou jusqu'à 20 vis

RÉINITIALISATION DU COMPTAGE PENDANT LE FONCTIONNEMENT

Pour modifier les réglages, arrêtez la commande de fixation avec le contrôleur s'il est en cours de fonctionnement. Une boîte de dialogue de confirmation apparaît lorsque vous appliquez la modification.
Vous pouvez réinitialiser les quantités comptées avec « Utilisation de la touche sur l'unité » ou « Réglage dans l'écran de configuration ».
* Ceci ne s'applique pas au « Free mode ».

Utilisation de la touche sur l'unité

Maintenez enfoncée la touche de réinitialisation sur le contrôleur pendant 3 secondes ou plus.
* Les quantités de tous les outils sont réinitialisées.

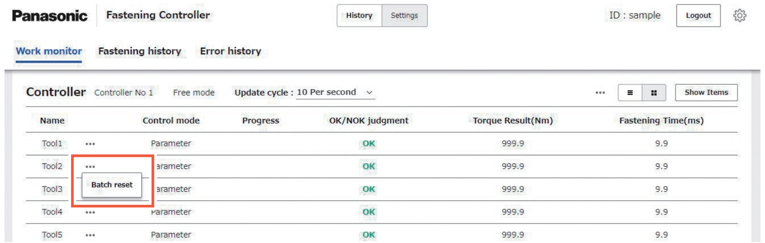

OK
NOK
1 2 3 4 5 6 7 8
Touche de réinitialisation

Réglage dans l'écran de configuration

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [History] en haut et sélectionnez l'onglet « Work monitor ».

Pour réinitialiser les quantités par outil

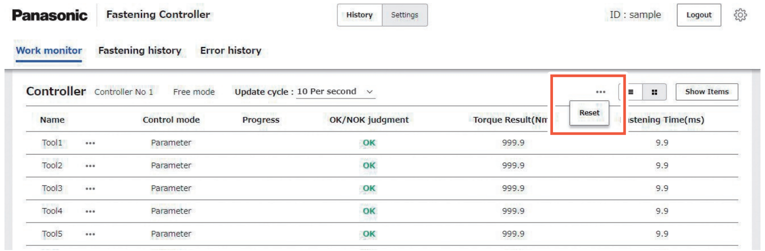
Dans l'écran « Work monitor », cliquez sur ··· (touche d'option outil) puis sur [Batch reset] du numéro d'outil souhaité.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Batch reset

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	arameter		OK	999.9	9.9
Tool3		arameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

Pour réinitialiser les quantités de tous les outils collectivement

Dans l'écran « Work monitor », cliquez sur ··· (touche d'optioncontrôleur), puis sur [Reset] en haut à droite.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Reset

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm	stening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	Parameter		OK	999.9	9.9
Tool3	···	Parameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

* En Sequence mode, les quantités sont réinitialisées jusqu'au premier outil.

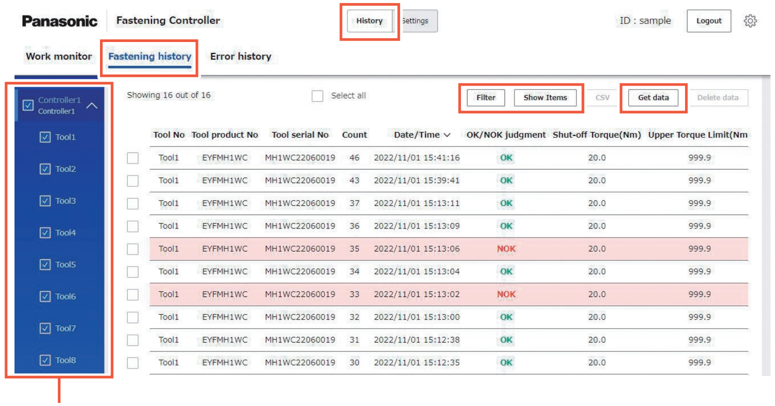
VÉRIFICATION DES DONNÉES D’HISTORIQUE DE FIXATION

Affichage des données d’historique de fixation

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [History] en haut et sélectionnez l’onglet « Fastening history ».
Vous pouvez visualiser les données d’historique de fixation envoyées par les outils au contrôleur.

Pour afficher les données, sélectionnez le contrôleur souhaité et les outils dans la liste d’outils sur la gauche et cliquez sur [Get data] en haut à droite.
Les journaux d’historique de fixation s’affichent de la plus récente à la plus ancienne.

* Pour le contenu des éléments de l’historique de fixation, voir les Instructions d’utilisation de l’outil.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Filter
Show Items
CSV
Get data
Delete data

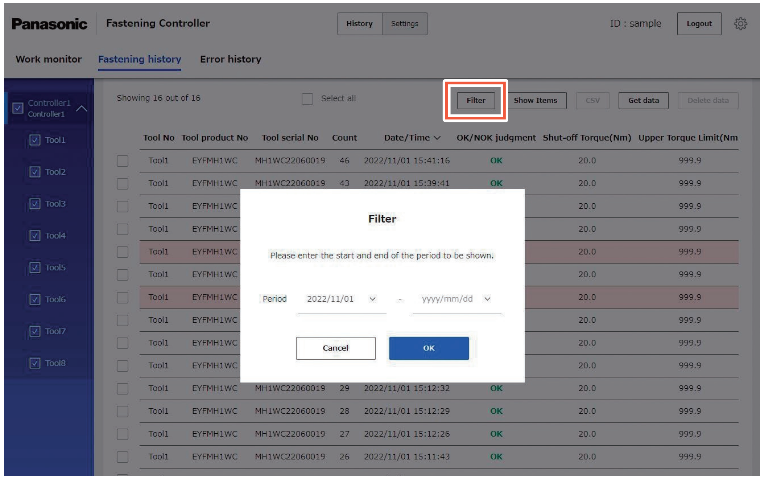
Showing 16 out of 16 ☐ Select all

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Liste d’outils

Extraction des journaux de l’historique de fixation par période

Cliquez sur [Filter] et spécifiez la période de temps pour réduire l’affichage des journaux d’historique de fixation.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Cancel
OK

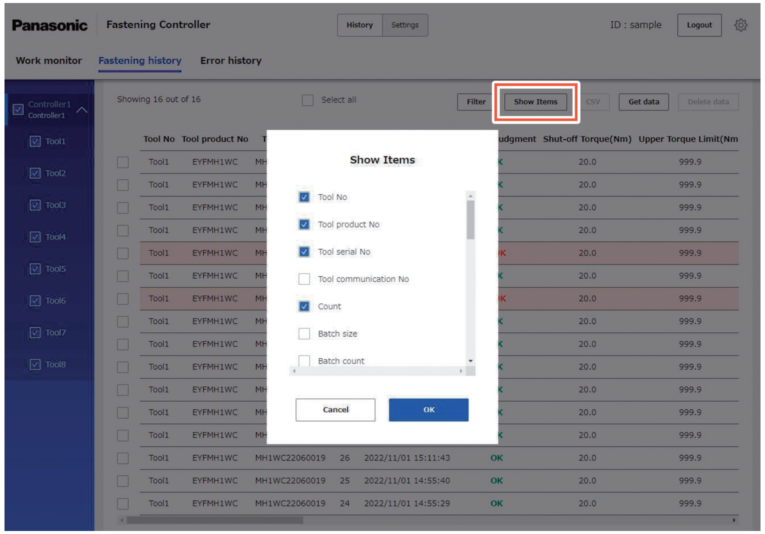
Filter

Please enter the start and end of the period to be shown.

Period 2022/11/01 - yyyy/mm/dd

Configuration des éléments à afficher

Pour modifier les éléments affichés, cliquez sur [Show Items] et sélectionnez les éléments souhaités.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Cancel
OK

Show Items

☑ Tool No
☑ Tool product No
☑ Tool serial No
☐ Tool communication No
☑ Count
☐ Batch size
☐ Batch count

Capacité des données d’historique de fixation

Le contrôleur peut stocker un maximum d’environ 200,000 journaux d’historique de fixation (y compris les données de forme d’onde).
Il suspend le fonctionnement ou supprime automatiquement les journaux (par écrasement) s’il reçoit plus de journaux.
Il est recommandé d’exporter périodiquement les journaux au format CSV si nécessaire en vous référant au guide ci-dessous.

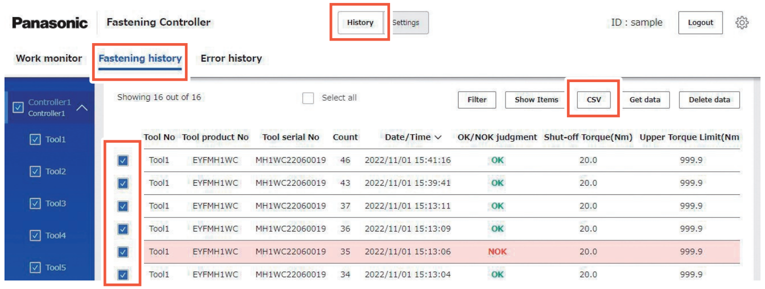
Temps estimé pour atteindre la capacité de stockage totale

	Quantité par jour par outil		
Nombre d’outils	**1,000**	**3,000**	**5,000**
2	Environ 100 jours	Environ 33 jours	Environ 20 jours
4	Environ 50 jours	Environ 16 jours	Environ 10 jours
8	Environ 25 jours	Environ 8 jours	Environ 5 jours

VÉRIFICATION DES DONNÉES D'HISTORIQUE DE FIXATION (suite)

Exportation des données d'historique de fixation au format CSV

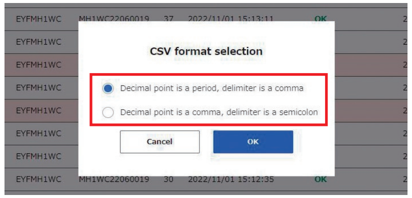
Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [History] en haut et sélectionnez l'onglet « Fastening history ».
Sélectionnez les journaux souhaités et cliquez sur [CSV].
Les journaux d'historique de fixation sont exportés au format CSV.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Select all
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16

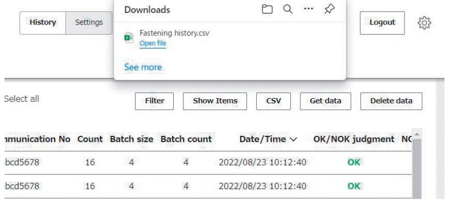
	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9

Vous pouvez choisir entre « Decimal point is a period, delimiter is a comma» et « Decimal point is a comma, delimiter is a semicolon ».



CSV format selection

● Decimal point is a period, delimiter is a comma
○ Decimal point is a comma, delimiter is a semicolon

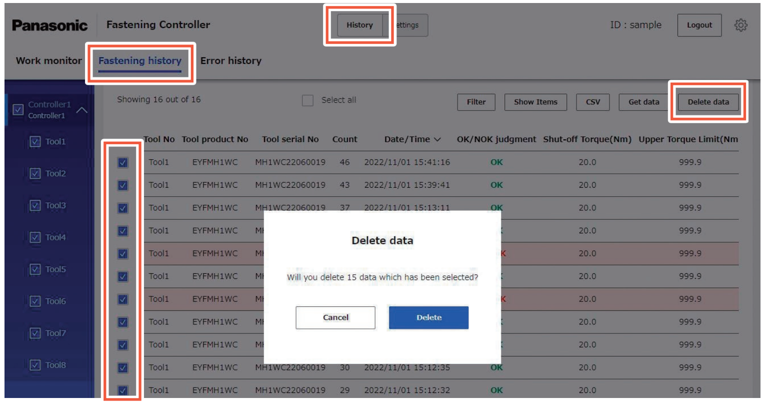

History
Settings
Downloads
Logout
Open file
See more
Select all
Filter
Show Items
CSV
Get data
Delete data

Fastening history.csv

munication No	Count	Batch size	Batch count	Date/Time	OK/NOK judgment	NC
bcd5678	16	4	4	2022/08/23 10:12:40	OK	
bcd5678	16	4	4	2022/08/23 10:12:40	OK	

Suppression des données d'historique de fixation

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [History] en haut et sélectionnez l'onglet « Fastening history ».
Sélectionnez les journaux souhaités et cliquez sur [Delete data].
Les journaux de l'historique de fixation sont supprimés.


Panasonic
Fastening Controller
History
ettings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Select all
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	29	2022/11/01 15:12:32	OK	20.0	999.9

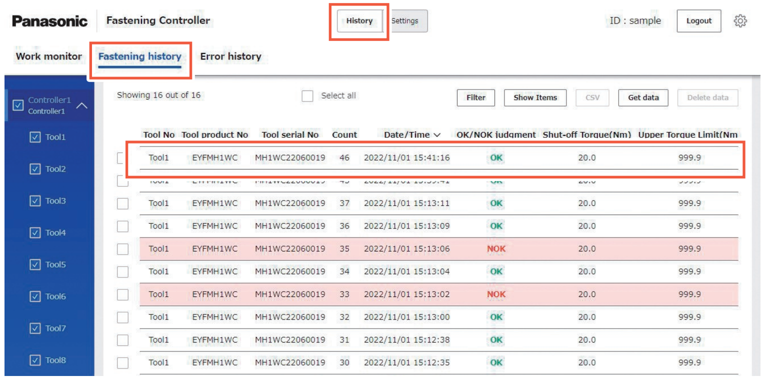
Delete data

Will you delete 15 data which has been selected?

Cancel
Delete

Affichage des données de forme d'onde

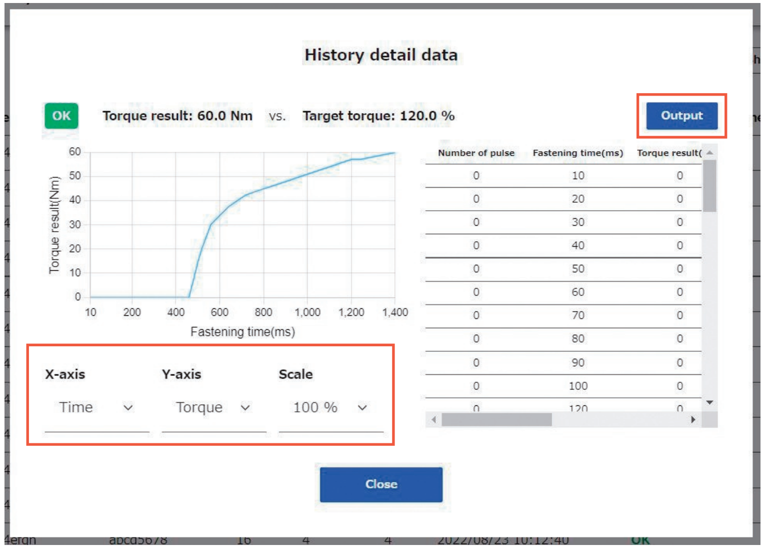
Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [History] en haut et sélectionnez l'onglet « Fastening history ».
Si vous avez activé pour enregistrer les données de forme d'onde, vous pouvez faire un double-clic sur la ligne du journal d'historique de fixation souhaité pour afficher une fenêtre contextuelle de données de forme d'onde.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Select all
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐								
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Vous pouvez ajuster l'affichage en sélectionnant « X-axis », « Y-axis », et « Scale ».
Cliquez sur [Output] pour exporter les données au format CSV.


Output
60
50
40
30
20
10
0
Torque result(Nm)
10
200
400
600
800
1,000
1,200
1,400
Fastening time(ms)
Close

History detail data

OK Torque result: 60.0 Nm vs. Target torque: 120.0 %

X-axis
Time
Y-axis
Torque
Scale
100 %

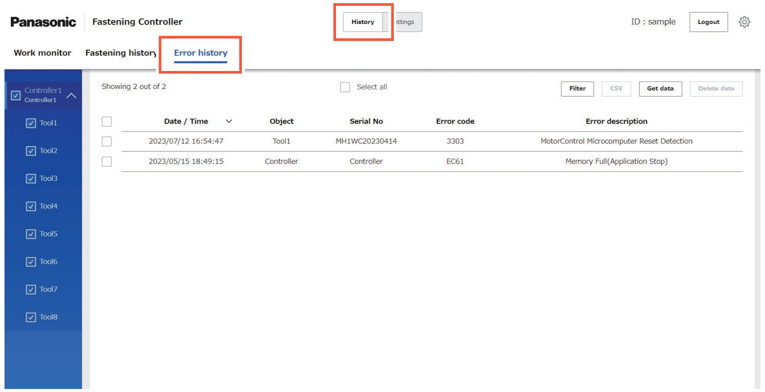
Number of pulse	Fastening time(ms)	Torque result(
0	10	0
0	20	0
0	30	0
0	40	0
0	50	0
0	60	0
0	70	0
0	80	0
0	90	0
0	100	0
0	120	0

* Veillez à configurer « Graph sending timing » dans « Device settings » sur « After every fastening ».

VÉRIFICATION DES DONNÉES D’HISTORIQUE DE FIXATION (suite)

Affichage de l’historique des erreurs

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [History] en haut et sélectionnez l’onglet « Error history ».
L’historique des erreurs qui se sont produites s’affiche.


Panasonic
Fastening Controller
History
ttings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Select all
Filter
CSV
Get data
Delete data

Showing 2 out of 2

Date / Time	Object	Serial No	Error code	Error description
2023/07/12 16:54:47	Tool1	MH1WC20230414	3303	MotorControl Microcomputer Reset Detection
2023/05/15 18:49:15	Controller	Controller	EC61	Memory Full(Application Stop)

Les éléments ci-dessous sont affichés.
* Pour le contenu de l’erreur, voir « CODE D’ERREUR ». **Se reporter à P90**

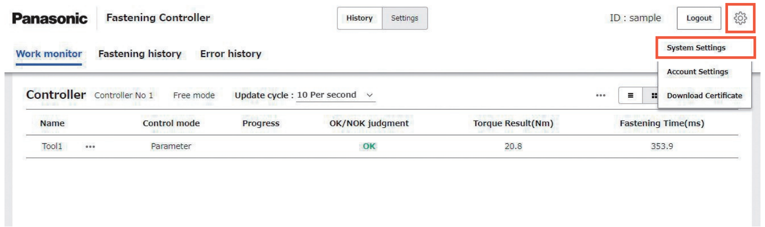
Date / Time
La date et l’heure d’occurrence de l’erreur s’affichent.
Object
Le dispositif (le contrôleur ou l’un des outils de 1 à 8) provoquant une erreur est affiché.
Serial No
Le numéro de série de l’appareil (le contrôleur ou l’un des outils 1 à 8) à l’origine d’une erreur s’affiche.
Error code
Un code d’erreur qui s’est produite s’affiche.
Error description
Le contenu d’une erreur qui s’est produite s’affiche.

PARAMÈTRES SYSTÈME

Changement de langue

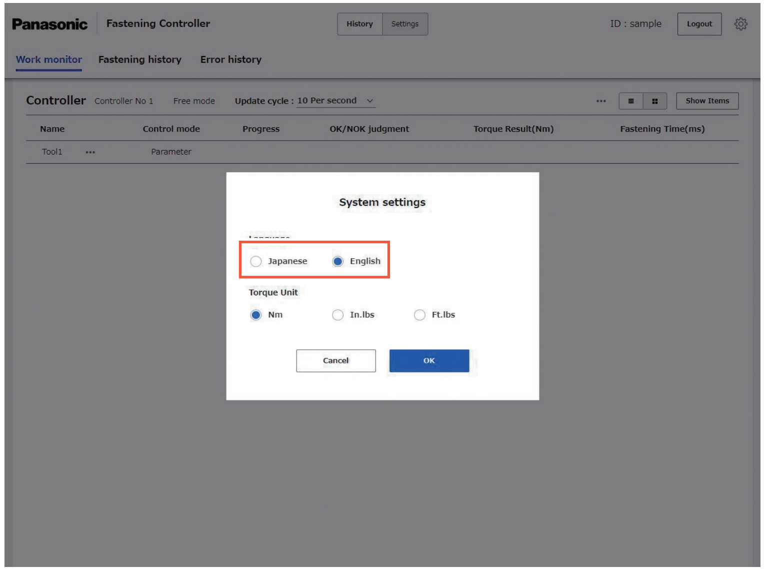
Vous pouvez sélectionner « Japanese » ou « English ».

1 **Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur la touche d’option dans le coin supérieur droit et sélectionnez « System Settings ».**
L’écran « System Settings » s’affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 **Sélectionnez la langue dans l’écran « System settings ».**
Vous pouvez sélectionner « Japanese » ou « English ».


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

○ Japanese ● English

Torque Unit

● Nm ○ In.lbs ○ Ft.lbs

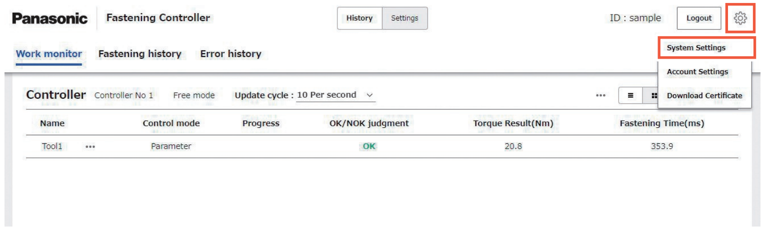
PARAMÈTRES SYSTÈME (suite)

Changement de l'unité de couple pour l'affichage

Vous pouvez sélectionner « Nm », « In.lbs » ou « Ft.lbs ».

1 **Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur la touche d'option dans le coin supérieur droit et sélectionnez « System Settings ».**

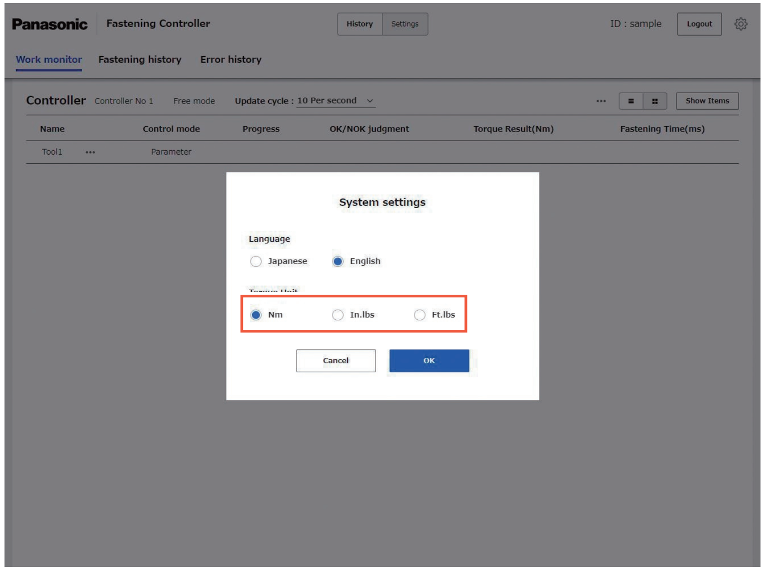
L'écran « System settings » s'affiche.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
≡

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	20.8	353.9

2 **Sélectionnez l'unité de couple dans l'écran « System settings ».**

Vous pouvez sélectionner l'unité de couple entre « Nm », « In.lbs », et « Ft.lbs ».


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
≡
Show Items
Cancel
OK

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter				

System settings

Language

○ Japanese ● English

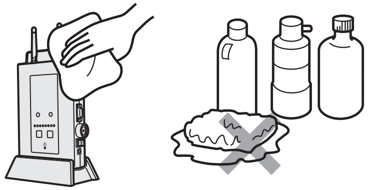
● Nm ○ In.lbs ○ Ft.lbs

NETTOYAGE ET ENTREPOSAGE

Comment nettoyer

Essuyage avec un chiffon doux

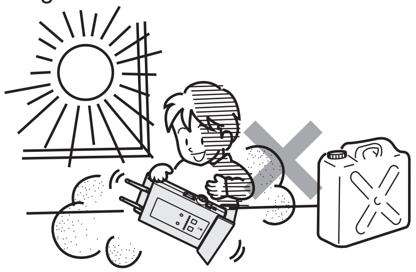
N'utilisez pas de chiffon humide, de diluant, d'alcool, de benzine ou d'autres liquides volatiles. (Cause de décoloration, déformation ou fissures)



Comment entreposer

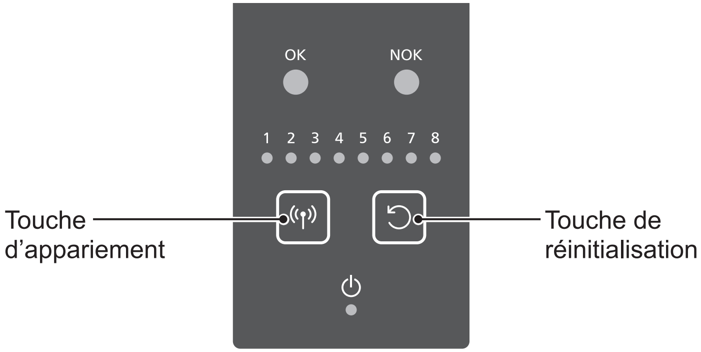
Évitez les conditions suivantes pendant l'entreposage.

- Habitacle de voiture ou autres endroits chauds
- Endroits exposés aux rayons directs du soleil
- Endroits exposés à l'eau ou à l'humidité
- Endroits contenant beaucoup de corps étrangers ou de poussière
- Endroits à portée des enfants
- Endroits contenant de l'essence ou d'autres produits inflammables
- Endroits présentant un risque de chute



Initialisation du contrôleur

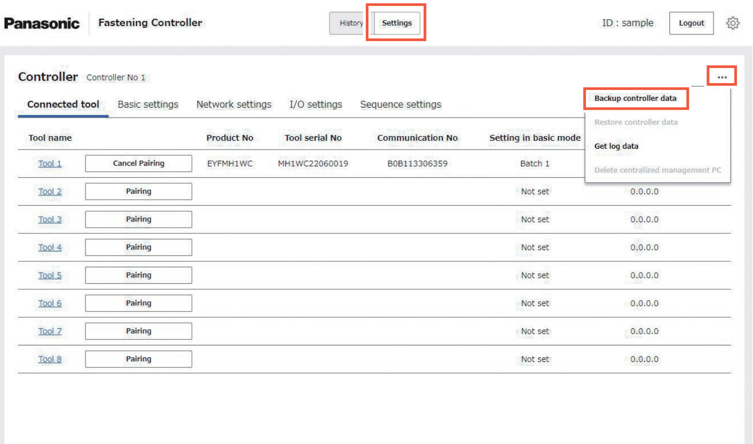
Pour initialiser (réinitialisation des réglages usine) le contrôleur, maintenez la touche d'appariement et la touche de réinitialisation enfoncées simultanément pendant 10 secondes ou plus.


OK
NOK
1 2 3 4 5 6 7 8
Touche d'appariement
Touche de réinitialisation

* Cela peut prendre plus de 5 minutes en fonction de l'utilisation de l'entreposage.
* Vous ne pouvez pas effectuer cette opération lorsque les touches sur l'appareil sont désactivées. **Se reporter à P66**

Effectuer une sauvegarde des paramètres

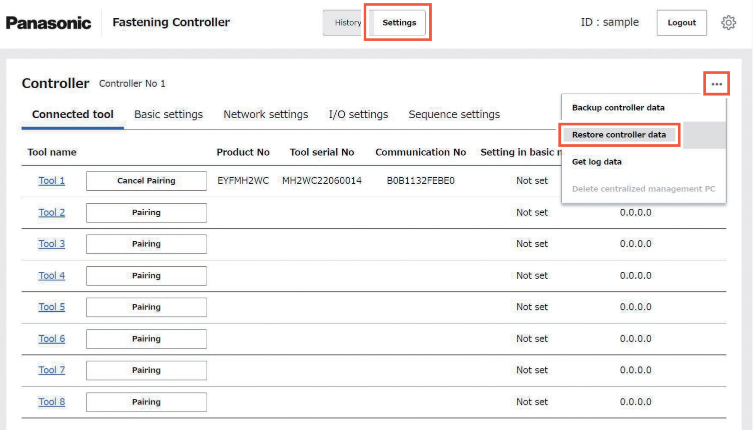
Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut.
Cliquez sur ··· (touche d’option contrôleur), puis sur [Backup controller data].
Vous pouvez sauvegarder les réglages du contrôleur et des outils.
* Les données d’historique de fixation ne sont pas sauvegardées. Exportez-les au format CSV si nécessaire.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Restauration des paramètres

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut.
Cliquez sur ··· (touche d’option contrôleur), puis sur [Restore controller data].
Vous pouvez restaurer les paramètres du contrôleur et des outils à partir de leur sauvegarde.
* Vous ne pouvez pas le faire pendant le contrôle de fixation.
* Vous ne pouvez pas l’effectuer lorsque l’appariement avec les outils est enregistré. Annulez l’appariement.

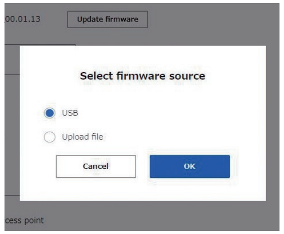

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Mise à jour du micrologiciel

Vous pouvez mettre à jour le micrologiciel du contrôleur et la pièce de communication de l’outil.

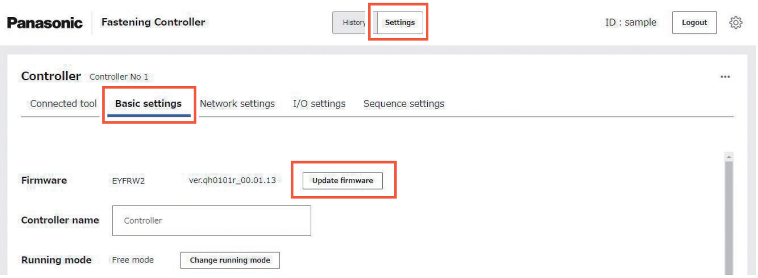
Utilisez l’une des méthodes suivantes pour mettre à jour le micrologiciel.
① Utilisation du port USB du contrôleur.
  * Une clé USB verrouillée par mot de passe ne peut pas être utilisée.
  * Sauvegardez un seul fichier de données de micrologiciel directement sur une clé USB sans créer de dossier.
② Écriture à partir du PC de configuration.
  * Lors de la sélection de « Upload file », sélectionnez le fichier de données de micrologiciel enregistré sur le PC dans l’écran de sélection.


00.01.13
Update firmware
Select firmware source
● USB
○ Upload file
Cancel
OK
cess point

Pour la version actuelle du micrologiciel, accédez à notre site Web. **Se reporter à P2**
Ou contactez notre commercial.

■ Pour le contrôleur

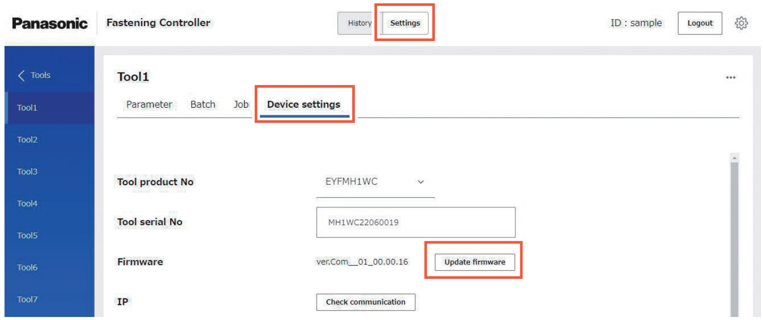
Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut, sélectionnez l’onglet « Basic settings » et cliquez sur [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name: Controller
Running mode: Free mode

■ Pour la pièce de communication de l’outil

Dans la page du haut (la page initiale de l’écran de configuration), cliquez sur [Settings] en haut et sélectionnez l’onglet « Connected tool ».
Dans l’écran « Connected tool », cliquez sur le numéro d’outilsouhaité.
Dans l’onglet « Device settings » dans l’écran du numéro d’outil, cliquez sur [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
···
Parameter
Batch
Job
Device settings
Update firmware
Check communication
IP

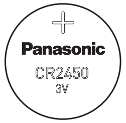
Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16

NETTOYAGE ET ENTREPOSAGE (suite)

Remplacement de la pile bouton

Pour maintenir l'horloge (RTC) du contrôleur en marche, remplacez la pile bouton en vous référant au guide de remplacement ci-dessous.

■ Type de batterie



CR2450

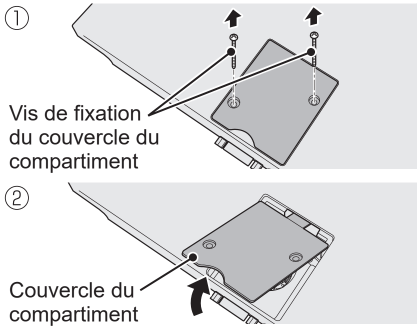
■ Guide de remplacement

La pile bouton est utilisée pour maintenir l'horloge en marche lorsque le contrôleur est éteint.
Pour réduire sa consommation, en principe, ne désactivez pas le contrôleur.

L'alimentation est activée 12 heures par jour (jours ouvrables uniquement)	L'alimentation est toujours activée
Environ 3 ans	Environ 8 ans

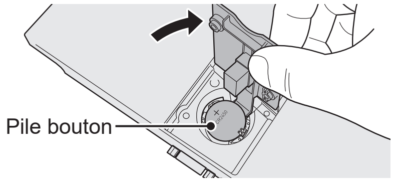
Remplacez-la par la procédure suivante ou contactez votre revendeur.
Il est recommandé de faire effectuer ce travail par une personne compétente en électricité.

1 **Retirez les 2 vis de fixation du couvercle du compartiment puis retirez le couvercle du compartiment.**

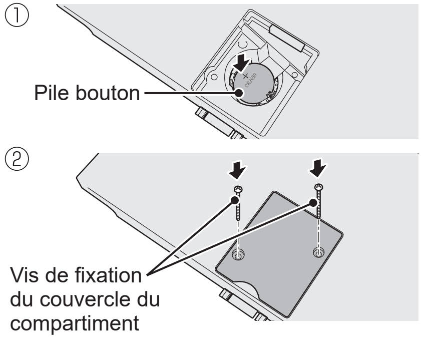

①
Vis de fixation du couvercle du compartiment
②
Couvercle du compartiment

2 **À l'aide du couvercle du compartiment, retirez la pile bouton.**

Soulevez la pile bouton avec le crochet du couvercle du compartiment.



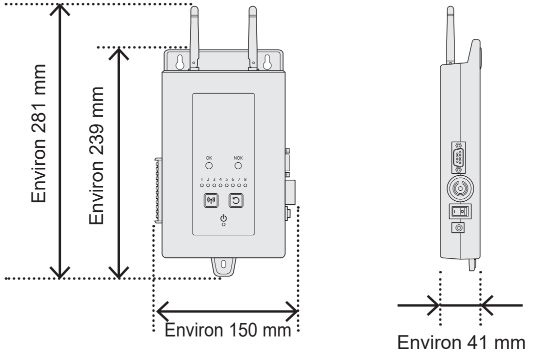
3 **Placez une pile bouton neuve et fixez le couvercle du compartiment avec les 2 vis de fixation du couvercle du compartiment.**



CAPACITÉ ET SPÉCIFICATIONS

Spécifications du contrôleur

Réception des signaux d'exécution et d'échec de fixation pendant le travail de montage du produit intérieur

Nº de modèle	EYFRW2
Alimentation électrique	100 V-240 V CA, 50/60 Hz
Norme de communication sans fil	Réseau local sans fil (IEEE.802.11 a/b/g/n)
Bande de fréquence	2,4 GHz : 2,412 GHz à 2,472 GHz 5 GHz : 5,180 GHz à 5,240 GHz
Canal	2,4 GHz : 1 à 13 canaux 5 GHz : 36, 40, 44, 48 canaux
Puissance de transmission [*1]	2,4 GHz : 89 mW 5 GHz : 141 mW
Couverture	2,4 GHz : environ 16 m 5 GHz : environ 10 m
Nombre d'outils pouvant être enregistrées	8 (maximum)
Bornes d'entrée/sortie (E/S)	8 entrées et 8 sorties
Tension nominale de la borne d'entrée	24 V CC, 50 mA
Tension nominale de la borne de sortie	30 V CC, 3 A
Consommation électrique	Environ 30 W
Plages de température et d'humidité de fonctionnement	0 °C à 45 °C, 20 % à 90 %
Taille (dimensions estimées) Longueur totale × Hauteur totale × Largeur	Environ 150 × 239 × 41 mm (hauteur y compris les antennes : 281 mm)  Environ 281 mm Environ 239 mm Environ 150 mm Environ 41 mm
Masse (Poids)	Environ 550 g (unité principale uniquement)
Interface de communication	Ethernet × 2, RS232C × 1, USB-A × 1
Nombre de données pouvant être stockées	Environ 200,000 journaux d'historique de fixation (y compris les données de forme d'onde)
Modèles d'outils compatibles	EYFMH1WC, EYFMH2WC, EYFMH1WP, EYFMH2WP

[*1] La puissance de transmission a été mesurée par un organisme tiers.

Spécifications sans fil

Fréquences par canal

Bande de fréquence	Canal	Fréquence
2,4 GHz	Canal 1	2,412 GHz
	Canal 2	2,417 GHz
	Canal 3	2,422 GHz
	Canal 4	2,427 GHz
	Canal 5	2,432 GHz
	Canal 6	2,437 GHz
	Canal 7	2,442 GHz
	Canal 8	2,447 GHz
	Canal 9	2,452 GHz
	Canal 10	2,457 GHz
	Canal 11	2,462 GHz
	Canal 12	2,467 GHz
	Canal 13	2,472 GHz
5 GHz	Canal 36	5,180 GHz
	Canal 40	5,200 GHz
	Canal 44	5,220 GHz
	Canal 48	5,240 GHz

Spécifications d’interface utilisateur Web

Système d’exploitation compatible	Windows 10 ou version ultérieure (supportant l’un des navigateurs Web ci-dessous)
Navigateur Web pris en charge	Microsoft Edge version 102 ou ultérieure ou Google Chrome version 102 ou ultérieure
Langue prise en charge	Anglais, japonais
Résolution d’écran recommandée	1024 × 768 ou plus

MISE EN GARDE

- Certains ordinateurs ne sont pas disponibles même s’ils sont conformes à l’environnement d’exploitation.
- Selon l’environnement d’utilisation, etc. de votre PC, les descriptions et les écrans de ces Instructions d’utilisation peuvent être différents des descriptions et écrans réels. Soyez avertis.
- Le contenu de ces Instructions d’utilisation peut faire l’objet de modifications sans préavis.
- Toute reproduction totale ou partielle du contenu de ces Instructions d’utilisation est interdite sans autorisation.
- Les descriptions sur le fonctionnement de Windows dans ces Instructions d’utilisation utilisent les procédures et les écrans de Windows 10.
- WebUI ne fonctionne pas avec un système d’exploitation autre que le système d’exploitation compatible.
- Le fonctionnement n’est pas garanti pour tous les PC répondant à l’environnement recommandé.

■ Conditions d’utilisation (Lire avant utilisation)

<Limitations>

WebUI est un logiciel de configuration pour EYFRW2.

MISE EN GARDE

- Respectez les consignes suivantes lors de l’utilisation de la fonction.
  Il est entendu que vous acceptez les conditions d’utilisation suivantes en utilisant la fonction.

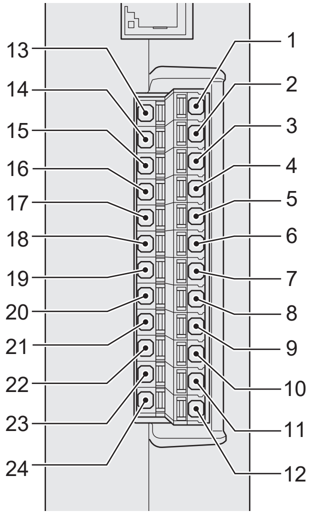
[Conditions d’utilisation]

Panasonic n’offre aucune garantie concernant la fonctionnalité.
Panasonic ne peut être tenu responsable de tout dommage, incluant sans s’y limiter la perte directe, la perte indirecte, l’étendue de perte, la perte consécutive et la perte spéciale provoquée par l’utilisation ou l’activation de la fonction.
La reproduction et la distribution non autorisées de la fonction sont interdites.

CAPACITÉ ET SPÉCIFICATIONS (suite)

Spécifications de l'E/S de contact

■ Attribution entre les bornes de relais de sortie et les bornes d'entrée


13
14
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18
19
20
21
22
23
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1
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5
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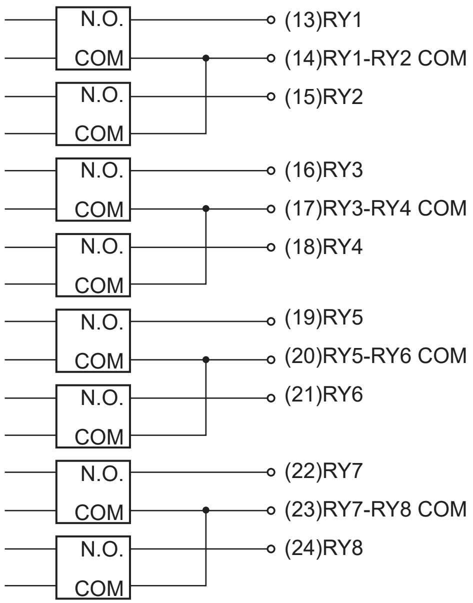
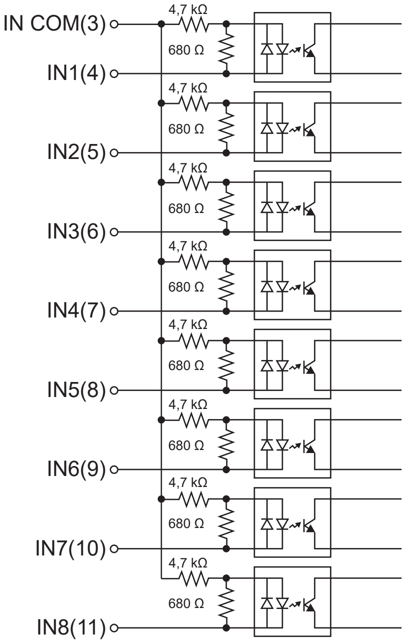
7
8
9
10
11
12

N°	Attribution des broches
1	+24 V
2	+24 V
3	IN COM
4	IN 1
5	IN 2
6	IN 3
7	IN 4
8	IN 5
9	IN 6
10	IN 7
11	IN 8
12	24 V return

N°	Attribution des broches
13	RY1
14	RY1-RY2 COM
15	RY2
16	RY3
17	RY3-RY4 COM
18	RY4
19	RY5
20	RY5-RY6 COM
21	RY6
22	RY7
23	RY7-RY8 COM
24	RY8

■ Schéma de connexion du bornier


N.O.
COM
(13)RY1
(14)RY1-RY2 COM
(15)RY2
(16)RY3
(17)RY3-RY4 COM
(18)RY4
(19)RY5
(20)RY5-RY6 COM
(21)RY6
(22)RY7
(23)RY7-RY8 COM
(24)RY8


IN COM(3)
IN1(4)
IN2(5)
IN3(6)
IN4(7)
IN5(8)
IN6(9)
IN7(10)
IN8(11)
4,7 kΩ
680 Ω

CERTIFICATION RADIO

PRÉCAUTIONS POUR LA COMMUNICATION SANS FIL

Mises en garde pour l'utilisation d'un périphérique WLAN

L'appareil utilise une bande de fréquence partagée avec d'autres types d'équipement incluant des appareils industriels, scientifiques et médicaux (par ex. un four à micro-ondes) et des stations de radio telles qu'une station de radio amateur (sous licence) et une station radio de faible puissance (sans licence) pour l'identification mobile utilisée dans les lignes de fabrication d'usine et une station de radio amateur (sous licence).

1. Avant d'utiliser l'appareil, vérifiez qu'il n'y a aucune station de radio à faible puissance pour l'identification mobile ou qu'aucune station de radio amateur ne fonctionne à proximité.
2. Si l'appareil provoque des interférences nuisibles avec une station de radio locale pour l'identification mobile, cessez immédiatement d'utiliser la bande et consultez le centre d'assistance ci-dessous pour résoudre le problème d'interférence (par exemple, en installant une cloison).
3. Si l'appareil cause des interférences nuisibles avec une station de radio à faible puissance ou à proximité pour l'identification mobile ou une station de radio amateur ou d'autres problèmes, consultez le centre d'assistance.

CERTIFICATION RADIO (suite)

■ Il se peut qu’il y ait du bruit, une couverture radio plus courte ou un dysfonctionnement dans les conditions environnementales suivantes.

- Il y a une obstruction (par exemple un objet en métal ou en béton armé) qui empêche la propagation radio régulière entre l’unité d’outils sans fil et le contrôleur.
- Les antennes du contrôleur sont recouvertes de métal.
- Le corps d’un opérateur interfère avec la propagation radio entre un opérateur (l’unité d’outil sans fil) et le contrôleur.
- Un appareil micro-ondes, un PC ou tout autre appareil causant du bruit se trouve à proximité.
- Un téléphone portable ou un téléphone PHS est utilisé à proximité de l’outil sans fil et du contrôleur.

CONDITIONS DE LICENCE

Conditions de licence logicielle

Ce produit intègre le logiciel suivant :

(1) le logiciel développé indépendamment par ou pour Panasonic Corporation,
(2) le logiciel détenu par un tiers et sous licence de Panasonic Corporation,
(3) le logiciel sous licence en vertu de la GNU General Public License, Version 1.0 (GPL V1.0),
(4) le logiciel sous licence en vertu de la GNU General Public License, Version 2.0 (GPL V2.0),
(5) le logiciel sous licence en vertu de la GNU General Public License, Version 3.0 (GPL V3.0),
(6) le logiciel sous licence en vertu de la GNU LESSER General Public License, Version 2.1 (LGPL V2.1),
(7) le logiciel sous licence en vertu de la GNU LESSER General Public License, Version 3.1 (LGPL V3.1),
(8) le logiciel sous licence en vertu de la SMAIL General Public License(SMAIL),
(9) le logiciel sous licence en vertu de la Mozilla Public License Version 1.1 (MPL V1.1),
(10) le logiciel sous licence en vertu de la Mozilla Public License Version 2.0 (MPL V2.0), et/ou
(11) un logiciel libre autre que le logiciel sous licence en vertu de GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL, MPL V1.1 et/ou MPL V2.0.

Les logiciels de la catégorie (3) - (11) sont distribués dans l’espoir qu’ils seront utiles mais SANS AUCUNE GARANTIE, sans même la garantie implicite de QUALITÉ MARCHANDE ou d’ADÉQUATION POUR UN USAGE PARTICULIER.

Pour plus de détails sur les détenteurs des droits d’auteur et les licences, reportez-vous à la page 93 et aux pages suivantes.

Au moins 3 ans à partir de la livraison de ce produit, Panasonic transmettra à tout tiers qui nous contacte via les informations de contact fournies ci-dessous, pour un coût inférieur à celui de l’exécution physique d’une distribution de code source, une copie complète lisible par une machine du code source correspondant, couvert par une licence GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL ou d’autres licences avec l’obligation de le faire, ainsi que l’avis de droit d’auteur respectif.

Informations de contact : oss-cd-powertools-gl@ml.jp.panasonic.com

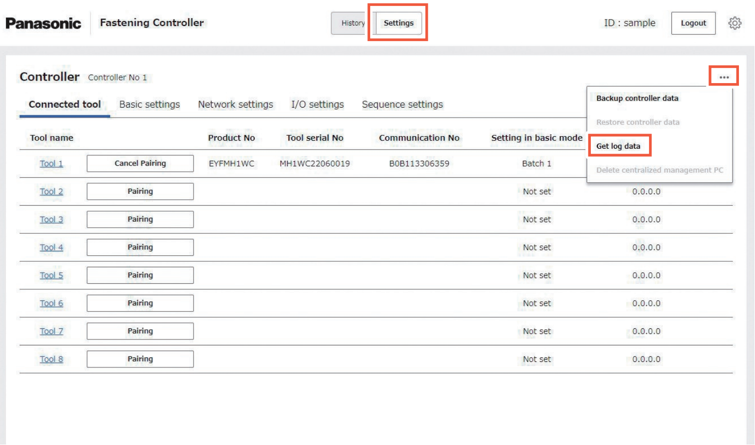
CODE D'ERREUR

Appareil	Code d'erreur	Type	Catégorie	Événement	Action
Contrôleur	0xEF21	Avertissement	Défaillance du matériel	Erreur de CPU secondaire (défaillance)	Redémarrez le contrôleur. Si le problème persiste, il se peut que l'appareil soit cassé. Contactez votre revendeur.
	0xEF51	Avertissement	Défaillance du matériel	Erreur Ether0	L'appareil est peut-être cassé. Contactez votre revendeur.
	0xEF52	Avertissement	Défaillance du matériel	Erreur Ether1	L'appareil est peut-être cassé. Contactez votre revendeur.
	0xEF61	Avertissement	Défaillance du matériel	Erreur du module Wi-Fi (défaillance)	Redémarrez le contrôleur. Si le problème persiste, il se peut que l'appareil soit cassé. Contactez votre revendeur.
	0xCE42	Erreur	Défaillance du logiciel	Erreur de contenu de réglage	Réinitialisez les paramètres d'usine du contrôleur et effectuez à nouveau les réglages.
	0xCE43	Erreur	Défaillance du logiciel	Erreur d'information de rétraction	Maintenez enfoncée la touche de réinitialisation du contrôleur pendant 3 secondes ou plus.
	0xEC61	Avertissement	Défaillance du logiciel	La capacité de stockage de l'historique de fixation est pleine (opération suspendue)	Supprimez les journaux de l'historique de fixation sur l'écran de l'historique de fixation pour libérer de l'espace. Exportez-les avant de les supprimer si nécessaire.
Outil	0x4301	Mise en garde	Défaillance du logiciel	La capacité de stockage est pleine	Accédez au logiciel de réglage de l'outil (logiciel Tool manager) et supprimez les journaux de l'historique des tâches.
	0x4302	Mise en garde	Défaillance du logiciel	Le nombre de résultats envoyés dans une file d'attente a atteint la limite supérieure.	L'outil ne peut pas communiquer avec le contrôleur. Changez le lieu de travail. Si le problème persiste, il se peut que l'appareil soit cassé. Contactez votre revendeur.
	0x3303	Erreur	Défaillance du logiciel	Détection de réinitialisation du microcontrôleur de commande	Une erreur qui s'est produite a été résolue.
	0x3304	Erreur	Défaillance du logiciel	Détection de réinitialisation du microcontrôleur de calcul de couple	Une erreur qui s'est produite a été résolue.

Appareil	Code d'erreur	Type	Catégorie	Événement	Action
Outil	0x4305	Mise en garde	Défaillance du logiciel	Batterie RTC faible	Remplacez la la pile bouton à l'intérieur de l'unité d'outil.
	0x4306	Mise en garde	Défaillance du logiciel	Erreur de mise à jour du micrologiciel	Vérifiez que le fichier du micrologiciel est correct.
	0x4315	Mise en garde	Défaillance du logiciel	Erreur de communication USB	Une erreur qui s'est produite a été résolue.
	0x4316	Mise en garde	Défaillance du logiciel	Module Wi-Fi redémarré	Une erreur qui s'est produite a été résolue.
	0x1401	Avertissement	Défaillance du matériel	Erreur de module Wi-Fi	Une erreur qui s'est produite a été résolue.
	0x1402	Avertissement	Défaillance du matériel	Erreur de microcontrôleur de commande du moteur	Une erreur qui s'est produite a été résolue.
	0x1403	Avertissement	Défaillance du matériel	Erreur du microcontrôleur de calcul de couple	Une erreur qui s'est produite a été résolue.
	0x1404	Avertissement	Défaillance du matériel	Erreur de clé USB externe	Une erreur qui s'est produite a été résolue.
	0x1405	Avertissement	Défaillance du matériel	Erreur RTC	Une erreur qui s'est produite a été résolue.
	0x1406	Avertissement	Défaillance du matériel	Erreur d'identification du circuit	Une erreur qui s'est produite a été résolue.
	0x1407	Avertissement	Défaillance du matériel	Pas d'espace d'échange restant	Une erreur qui s'est produite a été résolue.
	0x1408	Avertissement	Défaillance du matériel	Espace de paramètre endommagé	Une erreur qui s'est produite a été résolue.

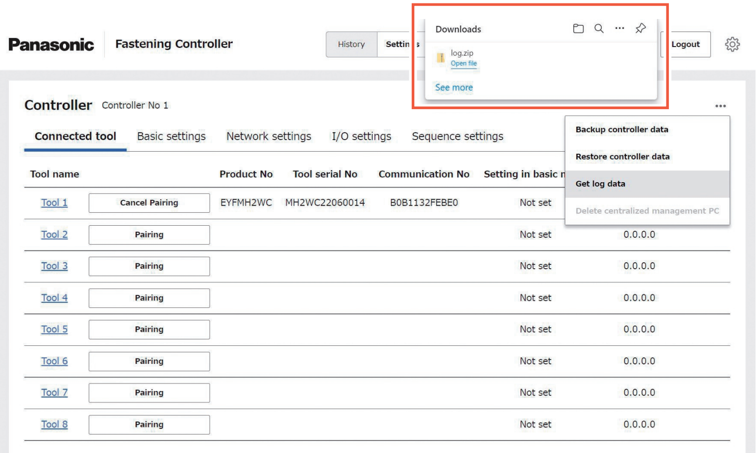
DONNÉES DU JOURNAL DES OPÉRATIONS

Dans la page du haut (la page initiale de l'écran de configuration), cliquez sur [Settings] en haut.
Cliquez sur ··· (touche d'option contrôleur), puis sur [Get log data].
Vous pouvez obtenir les journaux de fonctionnement du contrôleur.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

▼


Downloads
log.zip
Open file
See more
Panasonic
Fastening Controller
History
Settin s
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic n	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

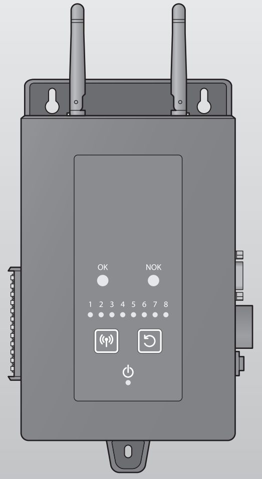
Panasonic®

Istruzioni per l'uso

Controller del gruppo

Modello n.:

EYFRW2


OK
NOK
1 2 3 4 5 6 7 8

IMPORTANTE

Leggere e seguire le istruzioni per la sicurezza e le Istruzioni per l'uso prima di utilizzare questo prodotto.
Non utilizzare la funzione wireless al di fuori del Paese in cui è stato acquistato il prodotto.
Ciò potrebbe violare le leggi e i regolamenti locali.

Sommario

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GUIDA INTRODUTTIVA

Ambiente operativo

È necessario utilizzare un browser web per configurare il controller.
Preparare un PC che soddisfi i seguenti requisiti.

Ambiente operativo

Sistema operativo compatibile	Windows 10 o versione successiva (che supporta uno dei browser web elencati di seguito)
Browser web	Microsoft Edge versione 102 o successiva oppure Google Chrome versione 102 o successiva

- Alcuni PC non sono disponibili anche se soddisfano l'ambiente operativo.
- A seconda dell'ambiente di utilizzo, ecc. del PC, le descrizioni e le schermate in queste Istruzioni per l'uso potrebbero essere diverse dalle descrizioni e dalle schermate reali. Tenerlo in considerazione.
- I contenuti di queste Istruzioni per l'uso sono soggette a modifiche senza preavviso.
- È vietata qualsiasi riproduzione totale o parziale dei contenuti di queste Istruzioni per l'uso senza previa autorizzazione.
- Le cifre in queste Istruzioni per l'uso servono solo per riferimento.

[Nota]

Mantenere sempre aggiornato il firmware.
È possibile trovare i dati più recenti del firmware sul seguente sito web che fornisce accesso alle Istruzioni per l'uso.
Per informazioni su come aggiornare il firmware, vedere "Aggiornamento del firmware".

Fare riferimento a P81

Come accedere alle Istruzioni per l'uso

La versione attuale delle Istruzioni per l'uso del controller e di altre risorse può essere scaricata dal sito web sotto.

https://www.panasonic-powertools.eu/en/construction/documents.htm

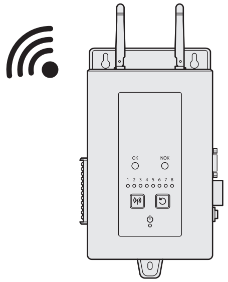
Marchi di fabbrica

- Microsoft e Windows sono marchi di fabbrica registrati o marchi di fabbrica di Microsoft Corporation negli Stati Uniti e/o in altri Paesi.
- Le schermate sono utilizzate in conformità alle linee guida di Microsoft Corporation.
- Wi-Fi e il logo Wi-Fi sono marchi di fabbrica registrati di Wi-Fi Alliance.

Altri nomi, inclusi i nomi di aziende e i nomi di prodotti, contenuti in queste Istruzioni per l'uso sono marchi di fabbrica o marchi di fabbrica registrati delle rispettive aziende.
™ e ® potrebbero essere omessi in queste Istruzioni per l'uso.

Uso previsto

Questo prodotto è un controller che comunica in wireless con gli utensili.
Può ricevere dati di cronologia di fissaggio dagli utensili, eseguire impostazioni di utensili e controllare la quantità da fissare.



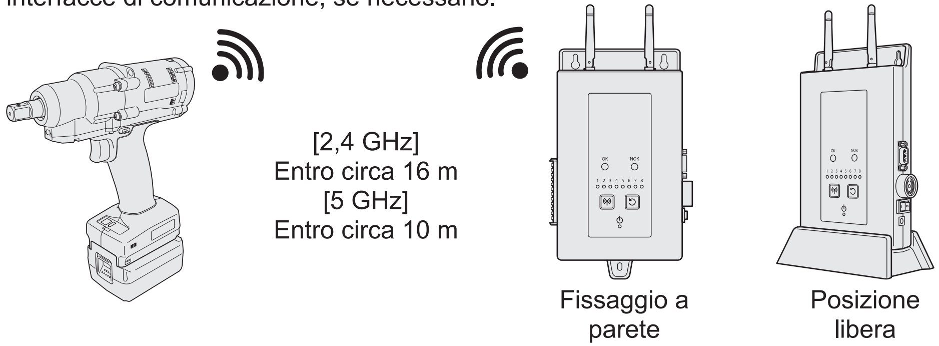
01 Collegare fino a 8 utensili

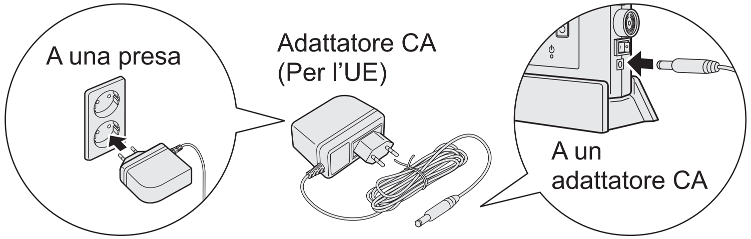
02 Supporta le bande 2,4 GHz e 5 GHz

03 Supporta una funzione di controllo fissaggio e una funzione di memorizzazione della cronologia

Configurazione

Installare il controller in un campo in cui la comunicazione wireless con gli utensili sia possibile.
Fornire l'alimentazione tramite una presa CA e collegare a dispositivi esterni attraverso interfacce di comunicazione, se necessario.





- Il controller contiene una batteria a bottone per mantenere attiva la funzione dell'orologio (RTC). Si consiglia di tenere accesa l'alimentazione per ridurre il consumo della batteria a bottone interna.
- La copertura wireless potrebbe cambiare a seconda dell'ambiente.

PRECAUZIONI DI SICUREZZA Rispettare sempre le istruzioni

Di seguito sono riportate le istruzioni da rispettare costantemente per evitare danni alle persone e alle cose.

■ La gravità di lesioni e danni causati da un uso errato viene indicata da quanto segue.

⚠ AVVERTENZA	Può causare lesioni gravi o mortali.
⚠ ATTENZIONE	Può causare lesioni di minore entità o danni materiali.

■ Il contenuto da rispettare viene indicato con i seguenti simboli. (I seguenti sono esempi)

⊘	NON SI DEVE eseguire l'azione.
❗	SI DEVE eseguire l'azione.

⚠ AVVERTENZA

❗ **Obbligatorio**	● **Assicurarsi che non siano presenti oggetti sotterranei, come condotti, tubi dell'acqua e tubi del gas nel luogo di installazione.** Il contatto con tali oggetti sotterranei potrebbe causare scosse elettriche o portare a perdite elettriche o di gas.
	● **Inserire la spina di alimentazione fino in fondo.** Un inserimento incompleto potrebbe causare scosse elettriche o la generazione di calore con conseguenti incendi. Non utilizzare una spina danneggiata o una presa allentata.
	● **Pulire regolarmente la spina di alimentazione dalla polvere.** La polvere accumulata sulla spina potrebbe assorbire umidità e causare un cattivo isolamento, provocando incendi. Scollegare la spina di alimentazione e pulirla con un panno asciutto.
	● **Utilizzare solo il cavo di alimentazione specificato.** L'utilizzo di qualsiasi altra spina potrebbe causare scosse elettriche, cortocircuiti o incendi.
	● **Tenere il luogo di lavoro sufficientemente luminoso.** Una scarsa visibilità in un luogo di lavoro buio potrebbe provocare un incidente o lesioni.

⚠ AVVERTENZA

⊘ **Vietato**	● **Non utilizzare una presa o un dispositivo di cablaggio in modo da superare il valore nominale. Utilizzare solo 100 V-240 V CA.** Superare il valore nominale a causa di una presa sovraccarica potrebbe causare generazione di calore e provocare incendi.
	● **Non danneggiare il cavo di alimentazione o la spina. (Evitare di danneggiare, rompere, modificare, mettere in prossimità di una fonte di calore, piegare con forza, torcere, tirare, posizionare sotto un carico pesante, schiacciare o legare)** L'utilizzo del cavo o della spina danneggiati potrebbe causare scosse elettriche, cortocircuiti o incendi. Controllare periodicamente il cavo e la spina in caso di danni, consultare il rivenditore.
	● **Non utilizzare il controller con alimentazione CC, un generatore motore o un trasformatore.** ● **Non utilizzare il controller in un luogo con liquidi o gas infiammabili.** Ciò potrebbe causare generazione di calore, fumo, incendi o esplosioni.
	● **Non installare il controller su una parete di malta.** Avvitarlo su una parete di malta potrebbe provocare la generazione di calore dall'interno della retina metallica, con conseguenti incendi in caso di perdite elettriche.
	● **Scollegare la spina di alimentazione tra un utilizzo e l'altro.** Mantenerla connessa potrebbe causare un isolamento scadente con conseguenti scosse elettriche o incendi dovuti a perdite elettriche.
Non smontare	● **Non modificare il controller. Non smontare o riparare il controller.** Ciò potrebbe causare incendi, scosse elettriche o lesioni. Per la riparazione, consultare il rivenditore o il nostro Centro di assistenza clienti.
Mantenere asciutto	**Evitare il seguente utilizzo di utensili carichi.** ● **Non utilizzarli o lasciarli esposti a pioggia o umidità.** ● **Non utilizzarli immersi nell'acqua.** Ciò potrebbe causare fumo, incendi o esplosioni.
Non usare mani bagnate	● **Non utilizzare una mano bagnata per collegare o scollegare la spina di alimentazione alla o dalla presa.** Ciò potrebbe causare scosse elettriche.

PRECAUZIONI DI SICUREZZA Rispettare sempre le istruzioni

⚠ ATTENZIONE

Vietato

- **Non utilizzare il controller per scopi diversi da quelli previsti.**
  Ciò potrebbe causare lesioni.
- **Non posizionare il controller in un luogo accessibile a un bambino.**
  Ciò potrebbe causare incidenti o problemi.
- **Non utilizzare il controller con olio o altro materiale estraneo attaccati a esso.**
  Tale olio o altro materiale estraneo potrebbe penetrare all'interno, provocando la generazione di calore, incendi o esplosioni.
- **Non conservare il corpo principale in un luogo in cui la temperatura potrebbe raggiungere 45 °C o più.**
  Ciò potrebbe causare un funzionamento anomalo.
- **Non lavorare in una posizione insolita.**
  In caso contrario, si potrebbe cadere e subire lesioni.
  Stare sempre in piedi su una base stabile e mantenere un buon equilibrio.
- **Non utilizzare il controller quando si è stanchi.**
  Ciò potrebbe causare un incidente o lesioni.
- **Non permettere a un bambino o ad altre persone che non sono un operatore di avvicinarsi al posto di lavoro o di toccare il controller.**
  Ciò potrebbe causare lesioni.
- **Non utilizzare il controller con dispositivi incompatibili.**
  Ciò potrebbe causare un malfunzionamento con conseguente incidente.

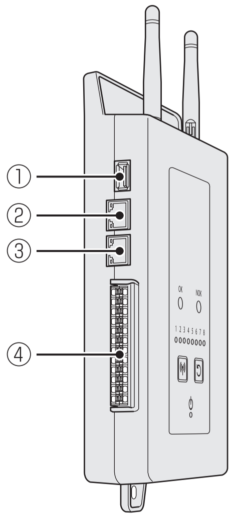
Obbligatorio

- **Per installare il controller su una parete, fissarlo con viti per evitare che cada.**
  In caso di caduta, ci si potrebbe ferire.
- **Per scollegare la spina di alimentazione, afferrare sempre la spina di alimentazione senza tirare il cavo.**
  Tirare il cavo potrebbe causare scosse elettriche o cortocircuiti.
- **Prima dell'uso, controllare che il controller e le altre parti non presentino danni e confermarne il normale funzionamento.**
  La mancata osservanza di questa precauzione potrebbe causare rotture con conseguenti lesioni.
- **Mantenere il posto di lavoro pulito.**
  Un luogo di lavoro o un tavolo di lavoro disordinato potrebbero causare un incidente.
- **Considerare bene come maneggiare e lavorare, prestare attenzione all'ambiente circostante e usare il buon senso durante il lavoro.**
  In caso contrario, si potrebbe causare un incidente o lesioni personali.

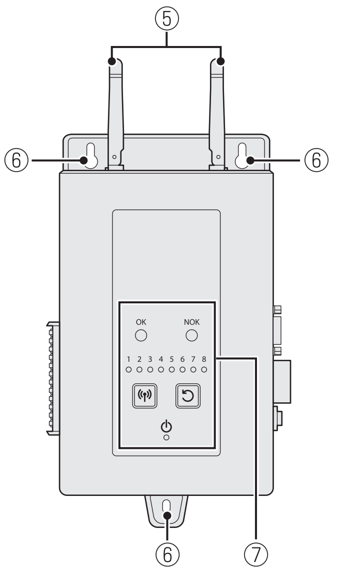
DESCRIZIONE DEL FUNZIONAMENTO

Corpo principale

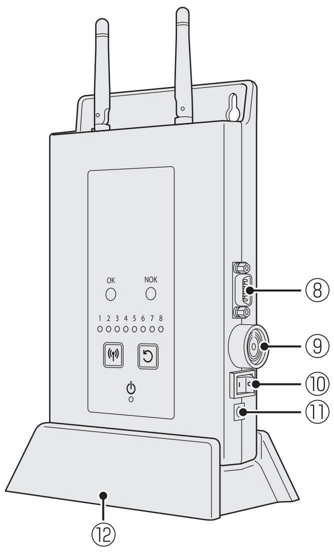
■ Lato sinistro



■ Lato anteriore

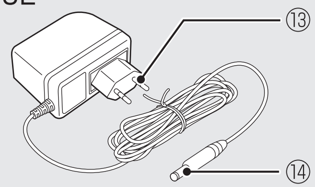


■ Lato destro

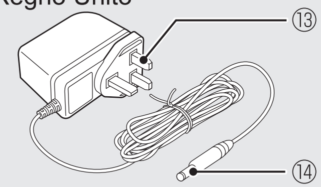


■ Adattatore CA

Per l'UE



Per il Regno Unito

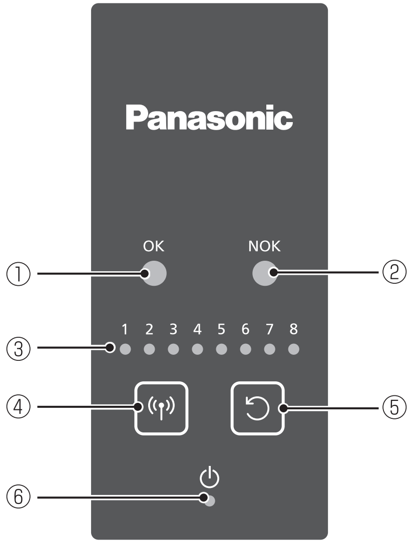


①	Porta USB (Tipo A)
②	Porta Ethernet (per la manutenzione)
③	Porta Ethernet (per la rete)
④	1～24 Porta I/O
⑤	Antenna Diversity
⑥	Foro per fissaggio a parete
⑦	Pannello di controllo

⑧	IOIOI Porta seriale (RS232C)
⑨	Cicalino
⑩	Interruttore di alimentazione
⑪	⊖-⊙-⊕ Presa adattatore CA
⑫	Supporto controller
⑬	Spina di alimentazione
⑭	Connettore di alimentazione

DESCRIZIONE DEL FUNZIONAMENTO (cont.)

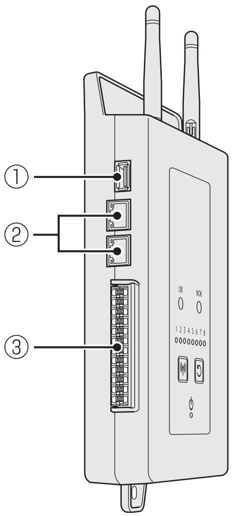
■ Pannello di controllo

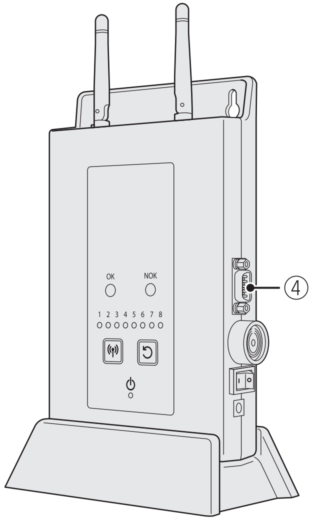


①	Spia fissaggio OK Verde fisso: è stato ricevuto un segnale di completamento del fissaggio. Spenta: non è stato ancora ricevuto un segnale di completamento del fissaggio.
②	Spia fissaggio NOK Rosso fisso: è stato ricevuto un segnale di errore del fissaggio. Spenta: non è stato ancora ricevuto un segnale di errore del fissaggio.
③	Spia di comunicazione (da N. 1 a N. 8) Blu fisso: un utensile è stato registrato. Blu lampeggiante: un utensile è in fase di registrazione o fuori dalla copertura. Spenta: un utensile non è ancora stato registrato.

④	Tasto di associazione
⑤	Tasto di ripristino
⑥	Spia di alimentazione Giallo fisso: alimentazione attiva (modalità di ricezione) Spenta: alimentazione disattivata Giallo lampeggiante: errore

■ Interfaccia di comunicazione



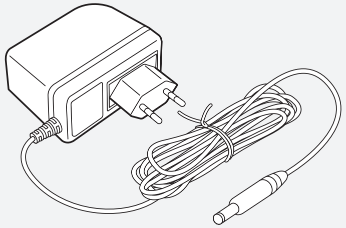


Interfaccia		Dettagli
①	USB	Utilizzare questa porta per collegare un'unità flash USB per aggiornare il firmware. • USB 2.0 Tipo A × 1 • Collegare direttamente un'unità flash USB (senza prolunga)
②	Ethernet (per manutenzione e rete)	Utilizzare questa porta per connettersi a un PC per la configurazione o a un sistema host. • 10Base-T/100Base-TX × 2 • Lunghezza cavo: meno di 30 m * Collegare la porta Ethernet (per la manutenzione) direttamente a un PC per la configurazione. (Non utilizzare un hub)
③	Terminale di ingresso/uscita (I/O)	Utilizzare questa porta per collegare a un dispositivo esterno (es. un PLC). • 8 ingressi e 8 uscite • Lunghezza cavo: 10 m o meno • Valore nominale del terminale di ingresso: 24 V CC, 50 mA • Valore nominale del terminale di uscita: 30 V CC, 3 A
④	Porta seriale (RS232C)	Utilizzare questa porta per collegare a un dispositivo esterno (es. un PLC). • RS232C × 1 • Lunghezza cavo: 10 m o meno

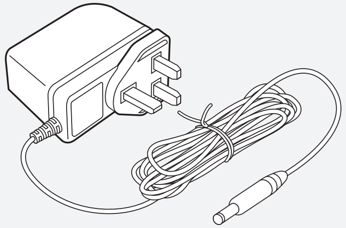
Accessori

■ Adattatore CA × 1

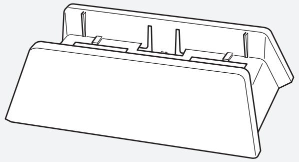
Per l’UE
(WEYFRW1K7751)



Per il Regno Unito
(WEYFRW1K7851)



■ Supporto controller × 1
(EYFRW1F7001)

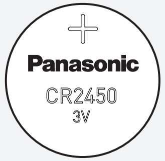


Materiali di consumo

■ Batteria a bottone (CR2450) × 1

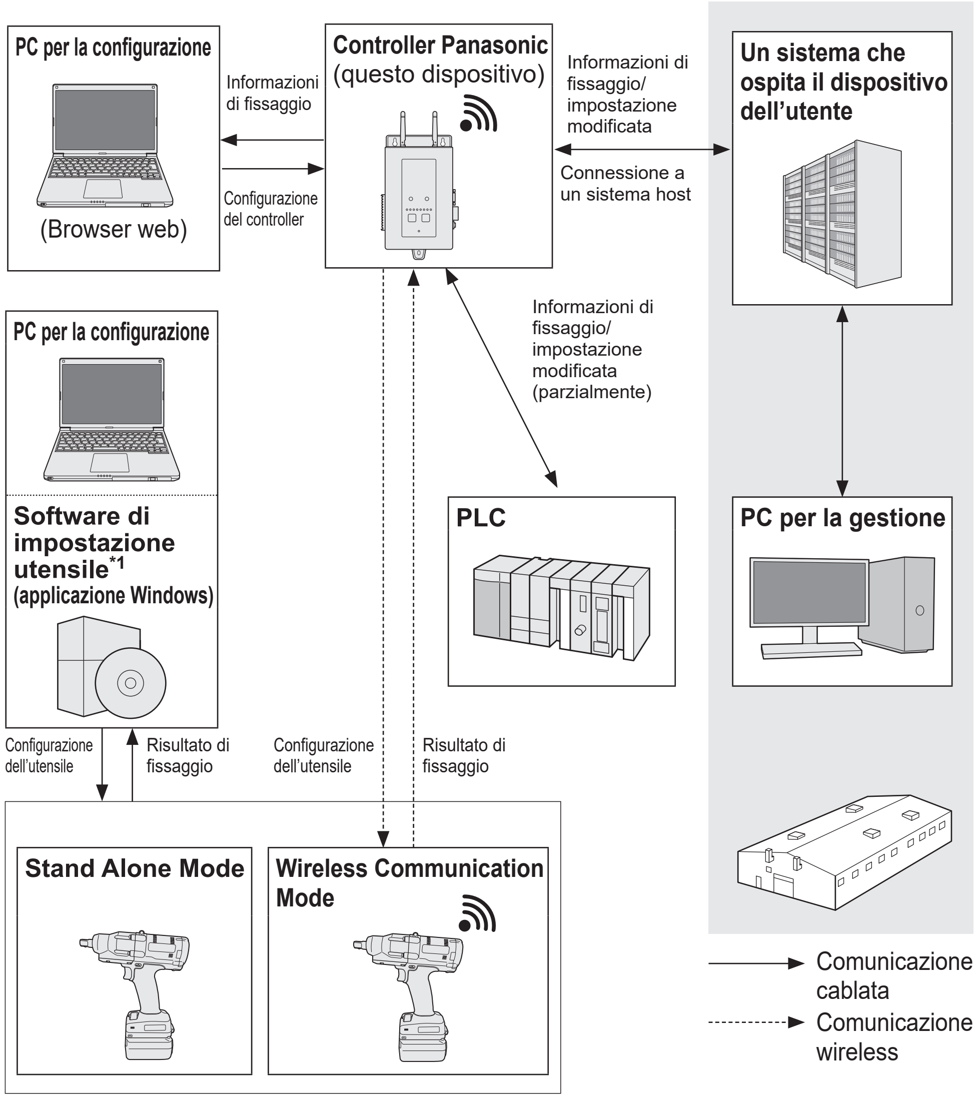
Per la sostituzione, vedere “Sostituzione della batteria a bottone”.

Fare riferimento a P82


Panasonic
CR2450
3V

CONFIGURAZIONE DI SISTEMA

Configurazione di sistema


PC per la configurazione
(Browser web)
Informazioni di fissaggio
Configurazione del controller
Controller Panasonic (questo dispositivo)
Informazioni di fissaggio/ impostazione modificata
Connessione a un sistema host
Un sistema che ospita il dispositivo dell’utente
PC per la configurazione
Software di impostazione utensile*1 (applicazione Windows)
Informazioni di fissaggio/ impostazione modificata (parzialmente)
PLC
PC per la gestione
Configurazione dell’utensile
Risultato di fissaggio
Configurazione dell’utensile
Risultato di fissaggio
Stand Alone Mode
Wireless Communication Mode

→ Comunicazione cablata

⇢ Comunicazione wireless

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*1 Il “software di impostazione utensile” può essere scaricato dal nostro sito web.

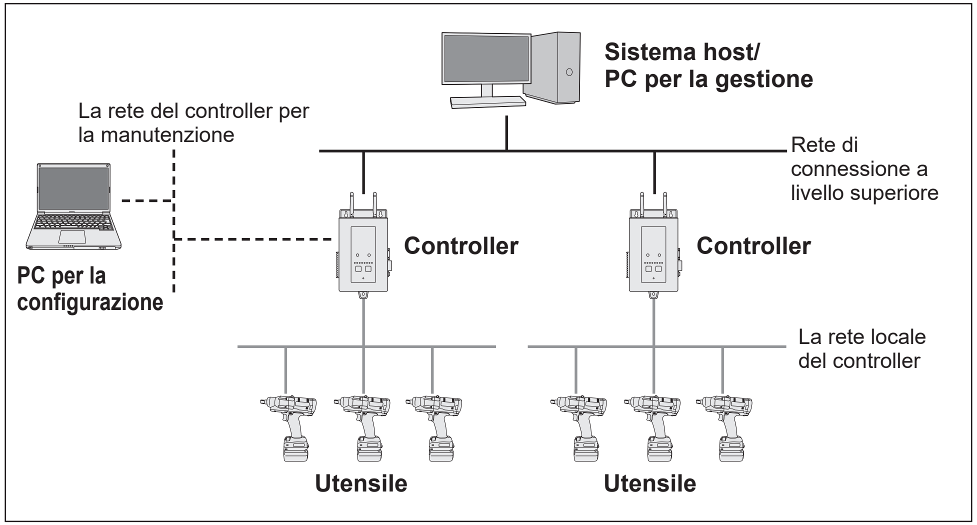
Fare riferimento a P2

Configurazioni di rete tipiche

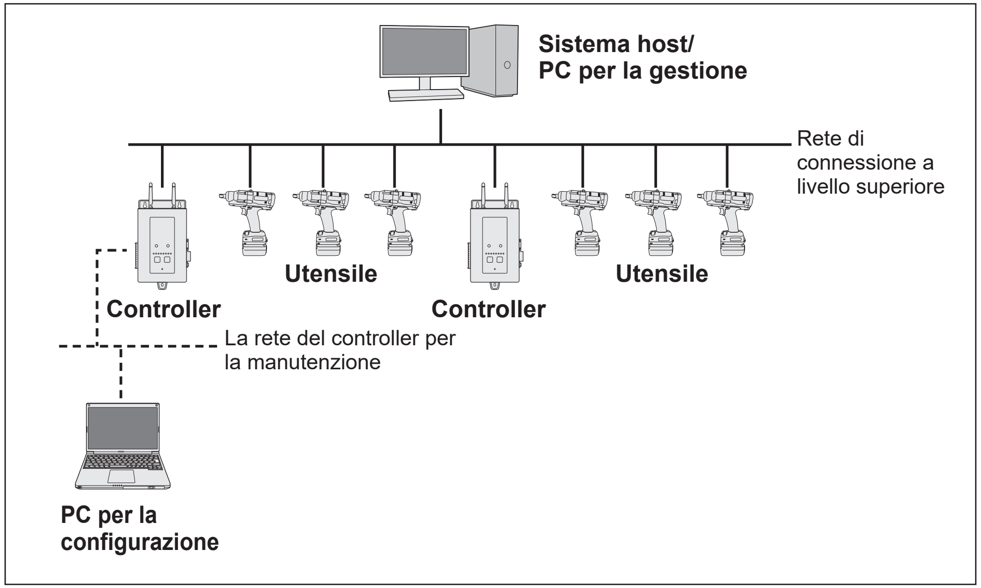
Il controller può essere utilizzato nelle 3 configurazioni seguenti.

■ Senza gestire gli indirizzi IP degli utensili

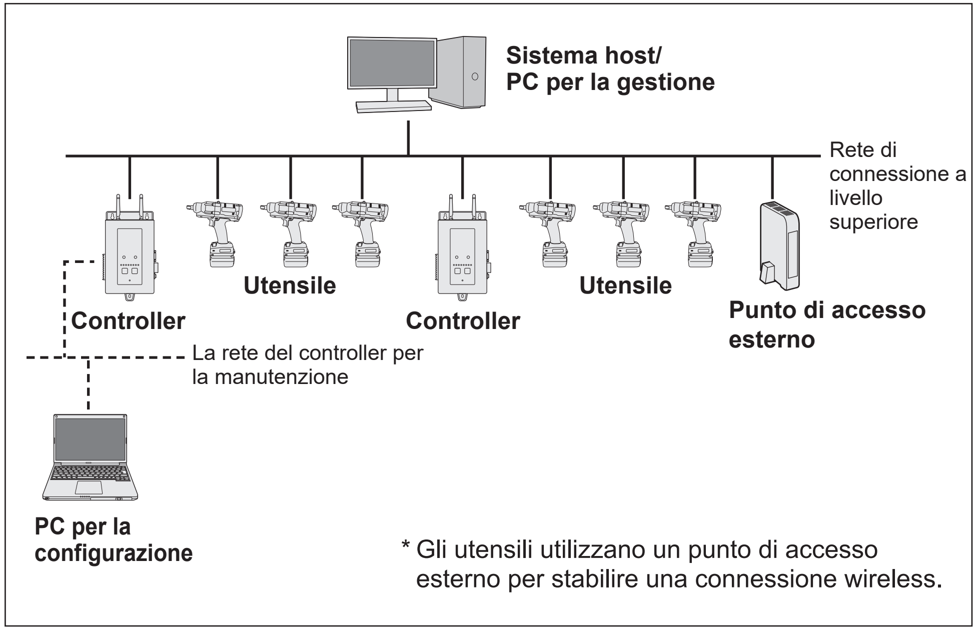
*** Assegnazione automatica (mediante il punto di accesso integrato nel controller)**


Sistema host/
PC per la gestione
La rete del controller per la manutenzione
Rete di connessione a livello superiore
Controller
Controller
PC per la configurazione
La rete locale del controller
Utensile
Utensile

■ Gestione degli indirizzi IP degli utensili (utilizzando il punto di accesso integrato nel controller)


Sistema host/
PC per la gestione
Rete di connessione a livello superiore
Utensile
Utensile
Controller
Controller
La rete del controller per la manutenzione
PC per la configurazione

■ Riconoscimento degli indirizzi IP degli utensili(utilizzando punti di accesso esterni)


Sistema host/
PC per la gestione
Rete di connessione a livello superiore
Utensile
Utensile
Controller
Controller
Punto di accesso esterno
La rete del controller per la manutenzione
PC per la configurazione

* Gli utensili utilizzano un punto di accesso esterno per stabilire una connessione wireless.

* Utilizzare il sistema all'interno della propria rete locale (senza connessione internet).

* Assicurarsi di controllare l'impostazione dell'indirizzo IP per la rete del controller prima di iniziare l'uso. (Modificare il predefinito se necessario)

UTENSILI COLLEGABILI/PRECAUZIONI PER L'INSTALLAZIONE

Elenco modelli utensili applicabili

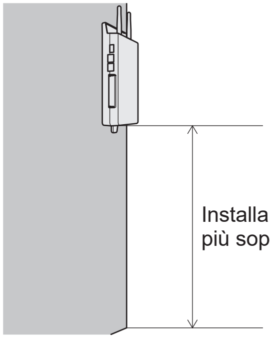
Modelli che possono essere registrati	EYFMH1WC, EYFMH2WC EYFMH1WP, EYFMH2WP

Precauzioni per l'installazione

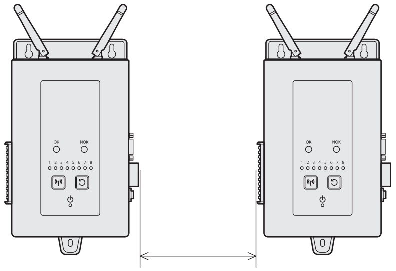
Installare il controller 80 cm o più sopra il pavimento. Mantenere una distanza di almeno 10 cm tra i controller installati. (1 m o più consigliato)
Tenere lontani gli ostacoli dalle antenne del controller installato.
Il controller ha 2 antenne Diversity. Tenere gli ostacoli lontani da entrambe le antenne.

⚠ ATTENZIONE

Per un'installazione sicura, utilizzare viti da legno con diametro nominale compreso tra 3,5 mm e 4,1 mm.



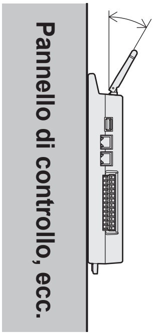
Installare il controller 80 cm o più sopra il pavimento.



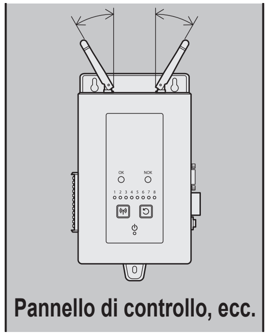
Mantenere una distanza di almeno 10 cm tra i controller installati.

Regolare gli angoli delle antenne se la comunicazione è instabile.
* In particolare per il controller installato su un pannello di metallo, la regolazione degli angoli delle antenne potrebbe migliorare la stabilità della comunicazione.

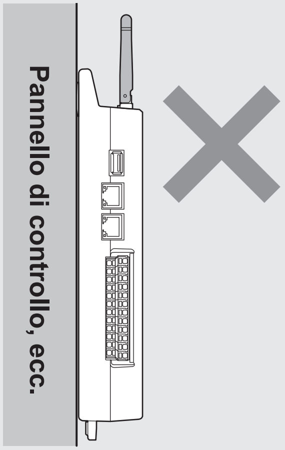
Inclinare le antenne da 30 a 45° dalla parete.



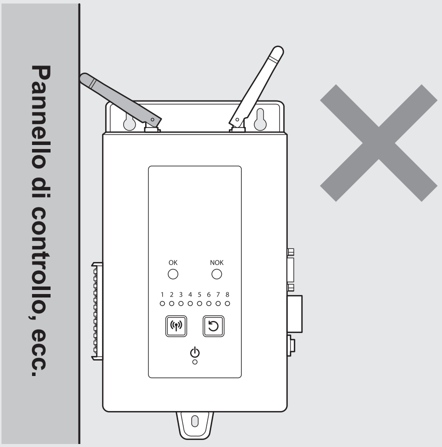
Inclinare le antenne verso l'esterno da 30 a 45°, guardando dalla parte anteriore.



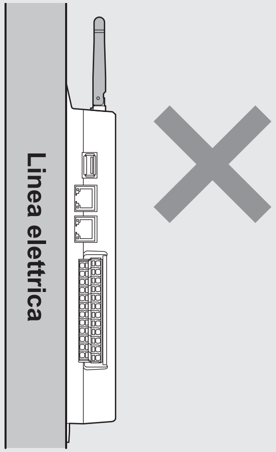
■ Evitare la seguente installazione.



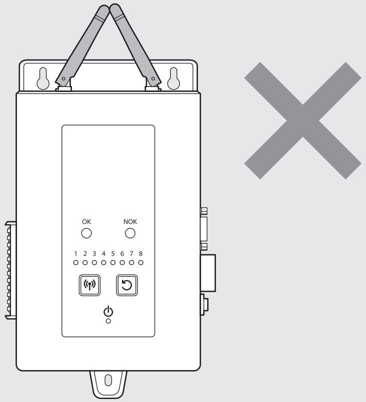
L'antenna è in parallelo con il pannello di controllo (pannello metallico) sul lato posteriore.



L'antenna è a contatto con il pannello di controllo (pannello in metallo).



Il controller è installato molto vicino a una linea elettrica.



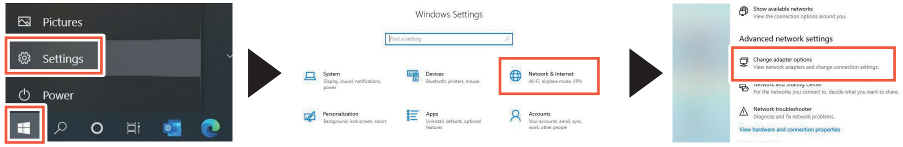
Le antenne sono a contatto tra loro.

PREPARAZIONE PRIMA DELL’USO

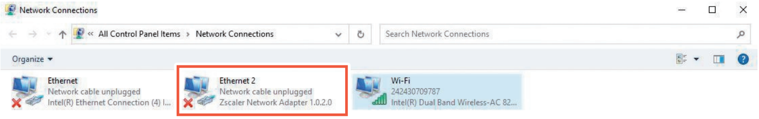
Impostazioni di rete sul PC per la configurazione

Impostare le impostazioni di rete sul PC per la configurazione come riportato di seguito quando si collega il PC e il controller per la prima volta.

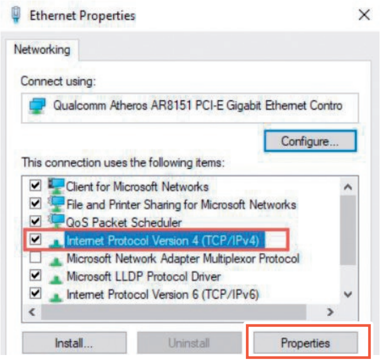
1 Fare clic su ⊞ in basso a sinistra dello schermo e fare clic su ⚙ (Settings) - [Network & Internet] - [Change adapter options].


Pictures
Settings
Power
Windows Settings
Find a setting
System
Display, sound, notifications, power
Devices
Bluetooth, printers, mouse
Network & Internet
Wi-Fi, airplane mode, VPN
Personalization
Background, lock screen, colors
Apps
Uninstall, defaults, optional features
Accounts
Your accounts, email, sync, work, other people
Show available networks
View the connection options around you.
Advanced network settings
Change adapter options
View network adapters and change connection settings.
Network and Sharing Center
For the networks you connect to, decide what you want to share.
Network troubleshooter
Diagnose and fix network problems.
View hardware and connection properties

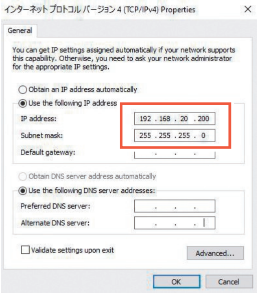
2 Fare clic con il pulsante destro del mouse sul dispositivo da collegare e fare clic su [Properties].


Network Connections
All Control Panel Items › Network Connections
Search Network Connections
Organize ▾
Ethernet
Network cable unplugged
Intel(R) Ethernet Connection (4) I...
Ethernet 2
Network cable unplugged
Zscaler Network Adapter 1.0.2.0
Wi-Fi
242430709787
Intel(R) Dual Band Wireless-AC 82...

3 Selezionare “Internet Protocol Version 4” e fare clic su [Properties].


Ethernet Properties
Networking
Connect using:
Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Contro
Configure...
This connection uses the following items:
☑ Client for Microsoft Networks
☑ File and Printer Sharing for Microsoft Networks
☑ QoS Packet Scheduler
☑ Internet Protocol Version 4 (TCP/IPv4)
☐ Microsoft Network Adapter Multiplexor Protocol
☑ Microsoft LLDP Protocol Driver
☑ Internet Protocol Version 6 (TCP/IPv6)
Install...
Uninstall
Properties

4 Impostare “IP address” e “Subnet mask” come riportato di seguito.


インターネット プロトコル バージョン 4 (TCP/IPv4) Properties
General
○ Obtain an IP address automatically
● Use the following IP address
○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
☐ Validate settings upon exit
Advanced...
OK
Cancel

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

IP address: 192 . 168 . 20 . 200
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .

IP address	192 . 168 . 20 . 200
Subnet mask	255 . 255 . 255 . 0

* Se si è modificato l’indirizzo IP per il controller dopo la connessione iniziale, abilitare la connessione riportando le impostazioni di rete (Indirizzo IP e subnet mask) sul PC per la configurazione. In quel momento, impostare Indirizzo IP in modo che il controller e il PC per la configurazione appartengano alla stessa rete.

* Annotare e conservare le impostazioni di rete del PC per la configurazione (Indirizzo IP e subnet mask) prima di modificarle.

* Si consiglia di lasciare il gateway predefinito non specificato (vuoto).

Visualizzazione della schermata di impostazione

Per configurare il controller, accedervi tramite un browser web.
Visualizzare la schermata di impostazione del controller come riportato di seguito.

Quando si utilizza il controller per la prima volta, rimuovere la pellicola protettiva dalla batteria a bottone.

1 Accendere il controller.

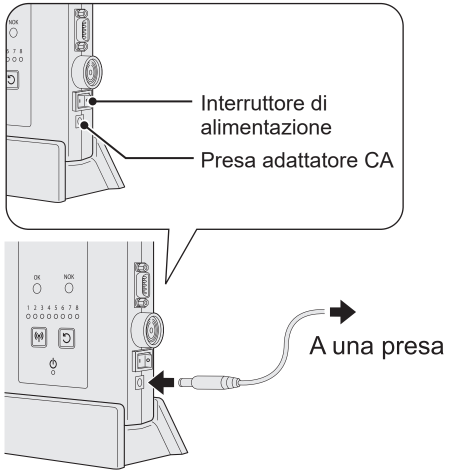
① Collegare l’adattatore CA in dotazione al controller e collegare la spina di alimentazione a una presa.

② Accendere l’interruttore di alimentazione del controller.

* Sono necessarie alcune decine di secondi per l’avvio.

* Durante l’avvio, la spia fissaggio OK, la spia fissaggio NOK e le spie di comunicazione (da N. 1 a N. 8) lampeggiano insieme.

* Non collegare cavi LAN.

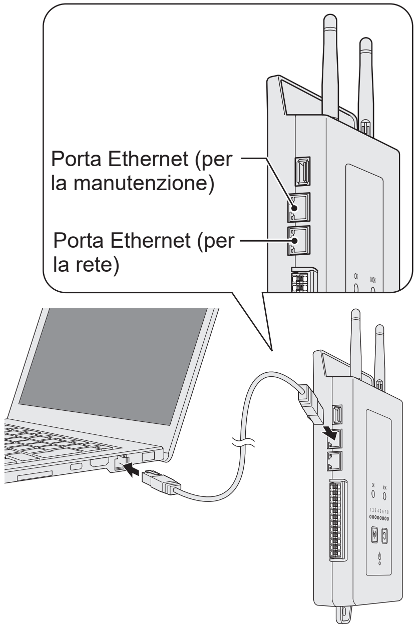

Interruttore di alimentazione
Presa adattatore CA
A una presa

2 Collegare il controller al PC per la configurazione con un cavo LAN.

① Collegare un cavo LAN alla porta Ethernet del controller.

* Il controller ha 2 porte Ethernet: una per la manutenzione e una per la rete. Usare quella per la manutenzione per la prima connessione.

② Collegare al PC per la configurazione con il cavo LAN.


Porta Ethernet (per la manutenzione)
Porta Ethernet (per la rete)

3 Avviare un browser web sul PC per la configurazione e accedere al controller.

① Avviare un browser web sul PC per la configurazione. (Si consiglia Microsoft Edge)

② Inserire l’indirizzo IP del controller nella barra degli indirizzi del browser web.

* L’indirizzo IP predefinito per la porta Ethernet (per la manutenzione) è “192.168.20.10”.

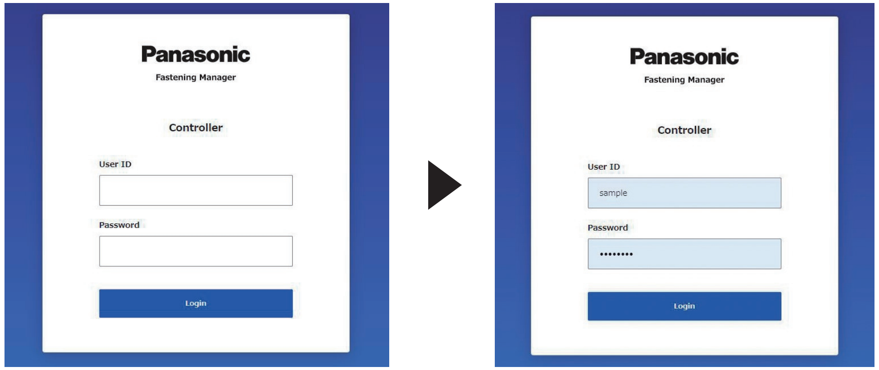
> Nella barra degli indirizzi del browser web, immettere “http://192.168.20.10/controller” per accedere.
> * Anche l’immissione solo di “192.168.20.10/controller” consente l’accesso.

* Per informazioni su come accedere tramite la porta Ethernet (per la rete), vedere “Connessione tramite la rete”. **Fare riferimento a P21**

* L’indirizzo IP deve essere impostato anche sul PC per la configurazione.

③ Nella schermata di accesso visualizzata, inserire l’ID utente e la password.
* L’ID utente e la password per l’accesso iniziale sono mostrati di seguito.

④ Viene visualizzata la pagina superiore (la pagina iniziale della schermata di impostazione).



User ID: sample
Password: ••••••••

ID utente e password per l’accesso iniziale

Accedere con l’ID utente e la password di seguito.

■ **ID utente:** root

■ **Password:** abcABC123

* Il tipo di account per l’accesso iniziale è “default”.
Per i tipi di account, vedere “Tipi di account (Autorità)”. **Fare riferimento a P19**

* La creazione di un account è possibile solo quando si effettua l’accesso con l’ID utente e la password di cui sopra. Creare un nuovo account prima di iniziare l’uso.

* Per motivi di sicurezza, si consiglia di modificare la password di cui sopra dopo l’accesso iniziale.

Tipi di account (Autorità)

Di seguito sono riportati i tipi di account. Utilizzarli in base alle applicazioni.

Tipo di account	Funzione
Predefinito	• Per l’accesso iniziale. **Fare riferimento a P18** Aggiunta o modifica di un account utente.
Administrator	• Visualizzazione della cronologia di fissaggio. • Configurazione del controller. • Configurazione degli utensili. • Aggiunta o modifica di un account utente. * Creare almeno un account amministratore.
General	• Visualizzazione della cronologia di fissaggio (inclusa la visualizzazione del monitor di lavoro).

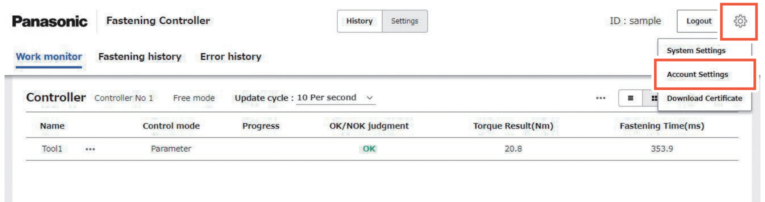
Fino a 10 account possono essere registrati.
Pertanto, più di un operatore può accedere contemporaneamente.
* Solo un account può accedere come amministratore allo stesso tempo.
Quando vengono tentati più accessi, l’ultima sessione ha la priorità.

Creazione di un account utente

Creare un nuovo account prima di iniziare l’uso.

1 Nella pagina superiore (la pagina iniziale della schermata delle impostazioni), fare clic sul tasto delle opzioni in alto a destra e selezionare “Account Settings”.

Viene visualizzata la schermata “Account Settings”.



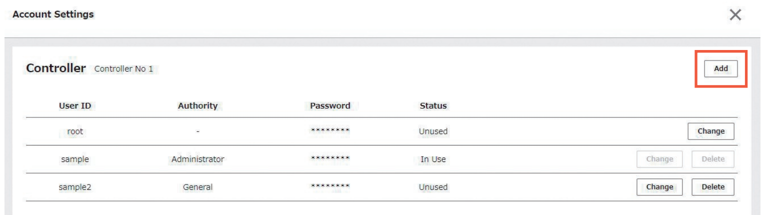
Controller Controller No 1 Free mode Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 Nella schermata “Account Settings”, fare clic su [Add].

Viene visualizzata la schermata “Add account”.

- Fare clic su [Change] per cambiare l’account e su [Delete] per eliminare l’account.

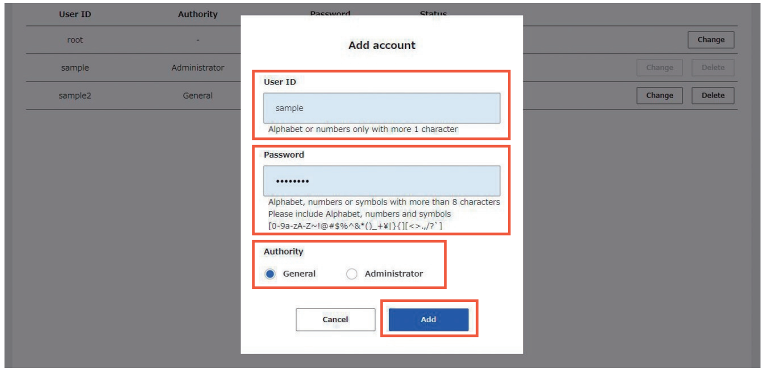


Controller Controller No 1

User ID	Authority	Password	Status
root	-	********	Unused
sample	Administrator	********	In Use
sample2	General	********	Unused

3 Immettere “User ID” e “Password”, selezionare “Authority”, quindi fare clic su [Add].

* Creare un account amministratore per configurare gli utensili.
* Per una password, utilizzare sempre una combinazione di 3 o più tipi tra maiuscole, minuscole, numeri e simboli.


User ID
Authority
Password
Status
root
-
sample
Administrator
sample2
General
Change
Delete
Add account
Cancel
Add

User ID: sample
Alphabet or numbers only with more 1 character

Password: ••••••••
Alphabet, numbers or symbols with more than 8 characters
Please include Alphabet, numbers and symbols
[0-9a-zA-Z~!@#$%^&*()_+¥|}{][<>.,/?`]

Authority: ● General ○ Administrator

[Riferimento] Se si è perso l’ID utente o la password

■ Account generale

[Metodo 1] Effettuare l’accesso come amministratore ed effettuare le modifiche all’account interessato.
* Un utente generico non può modificare l’ID utente e la password e deve chiedere a un amministratore di modificarli.

[Metodo 2] Effettuare l’accesso con un account amministratore appena creato e apportare modifiche all’account interessato.
* Accedere con l’ID utente e la password per l’accesso iniziale e creare un nuovo account amministratore. **Fare riferimento a P18**

■ Account amministratore

A) Quando sono stati creati più account amministratore

[Metodo 1] Effettuare l’accesso con un altro account amministratore e apportare modifiche all’account interessato.

[Metodo 2] Effettuare l’accesso con un account amministratore appena creato e apportare modifiche all’account interessato.
* Accedere con l’ID utente e la password per l’accesso iniziale e creare un nuovo account amministratore. **Fare riferimento a P18**

[Metodo 3] Inizializzare le impostazioni se si perdono ID e password di tutti gli account amministratore. **Fare riferimento a P79**

B) Quando è stato creato solo un account amministratore

[Metodo 1] Effettuare l’accesso con un account amministratore appena creato e apportare modifiche all’account interessato.
* Accedere con l’ID utente e la password per l’accesso iniziale e creare un nuovo account amministratore. **Fare riferimento a P18**

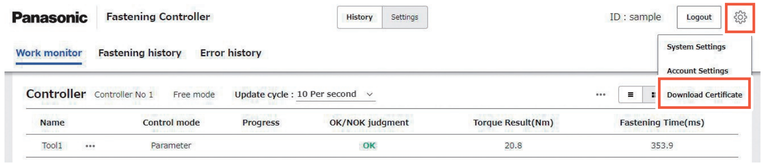
[Metodo 2] Inizializzare le impostazioni se si perdono ID e password di tutti gli account amministratore. **Fare riferimento a P79**

Ottenere un certificato

È necessario un certificato per accedere al controller tramite la porta Ethernet (per la rete).
È possibile ottenere un certificato come descritto di seguito.

1 Nella pagina superiore (la pagina iniziale della schermata delle impostazioni), fare clic sul tasto delle opzioni in alto a destra e selezionare “Download Certificate”.

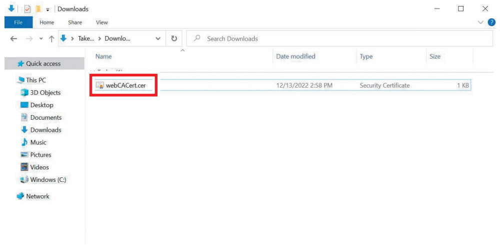
Il riferimento del certificato viene scaricato nel PC per la configurazione.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

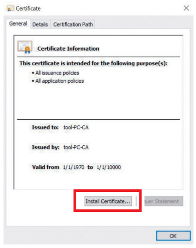
Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 Installare il certificato nel “PC per la configurazione utilizzato per accedere al controller tramite la rete”.

① Fare doppio clic sul riferimento del certificato scaricato e selezionare “Install Certificate”.


Downloads
File
Home
Share
View
Take... › Downlo...
Search Downloads
Quick access
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network

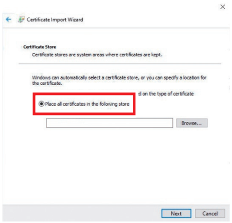
Name	Date modified	Type	Size
webCACert.cer	12/13/2022 2:58 PM	Security Certificate	1 KB


Certificate
General
Details
Certification Path
Certificate Information
Install Certificate...
OK

This certificate is intended for the following purpose(s):
• All issuance policies
• All application policies

Issued to: tool-PC-CA
Issued by: tool-PC-CA
Valid from 1/1/1970 to 1/1/10000

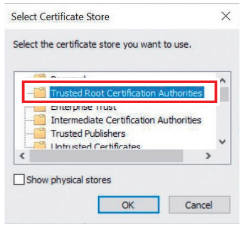
② Selezionare “Place all certificates in the following store”, quindi selezionare “Trusted Root Certification Authorities”.


Certificate Import Wizard
Certificate Store
Browse...
Next
Cancel

Certificate stores are system areas where certificates are kept.

Windows can automatically select a certificate store, or you can specify a location for the certificate.

● Place all certificates in the following store


Select Certificate Store
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
Show physical stores
OK
Cancel

Select the certificate store you want to use.

☐ Show physical stores

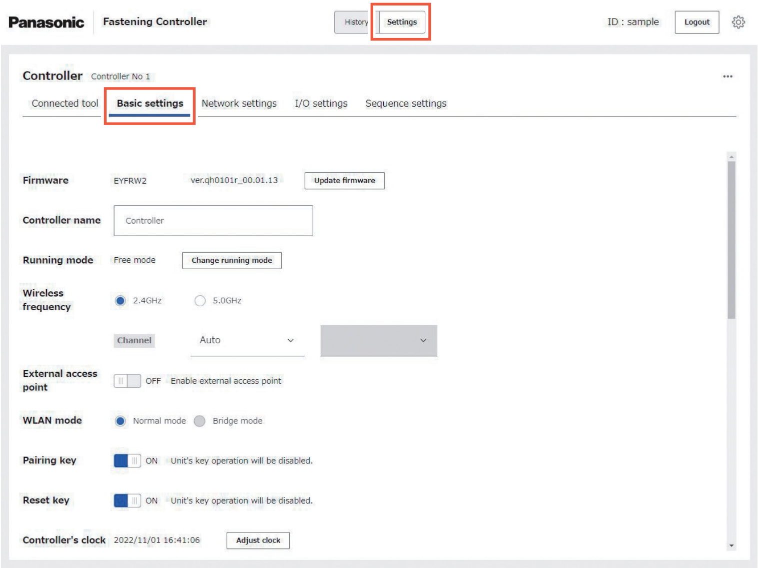
Connessione tramite la rete

Nella barra degli indirizzi del browser web, immettere “https://XXX.XXX.XXX.XXX/controller” per collegare il controller tramite la porta Ethernet (per la rete).
* “XXX.XXX.XXX.XXX” è un indirizzo IP.
* L’indirizzo IP predefinito è “192.168.0.10”. Se si è modificato l’indirizzo predefinito, inserire quello modificato. **Fare riferimento a P26**

CONFIGURAZIONE DEL CONTROLLER

Impostazioni di base

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Basic settings”.
È possibile configurare il controller.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name: Controller

Running mode: Free mode

Wireless frequency: ● 2.4GHz ○ 5.0GHz

Channel: Auto

External access point: OFF Enable external access point

WLAN mode: ● Normal mode ○ Bridge mode

Pairing key: ON Unit's key operation will be disabled.

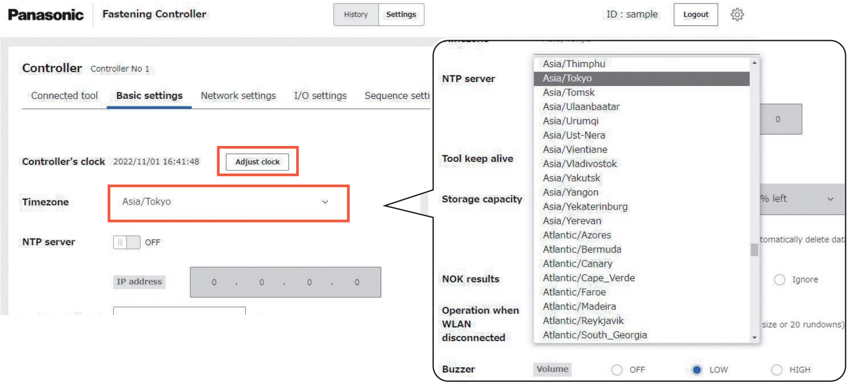
Reset key: ON Unit's key operation will be disabled.

Controller's clock: 2022/11/01 16:41:06

Impostazione dell’ora

Selezionare “Timezone”, quindi fare clic su [Adjust clock].
L’ora viene aggiornata.

- L’ora non è ancora impostata al momento della spedizione. Assicurarsi di impostare l’ora quando si utilizza il controller per la prima volta.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence setti
Adjust clock
NTP server
Tool keep alive
Storage capacity
NOK results
Operation when WLAN disconnected
Buzzer
Volume
○ OFF
● LOW
○ HIGH
Asia/Thimphu
Asia/Tokyo
Asia/Tomsk
Asia/Ulaanbaatar
Asia/Urumqi
Asia/Ust-Nera
Asia/Vientiane
Asia/Vladivostok
Asia/Yakutsk
Asia/Yangon
Asia/Yekaterinburg
Asia/Yerevan
Atlantic/Azores
Atlantic/Bermuda
Atlantic/Canary
Atlantic/Cape_Verde
Atlantic/Faroe
Atlantic/Madeira
Atlantic/Reykjavik
Atlantic/South_Georgia

Controller's clock: 2022/11/01 16:41:48

Timezone: Asia/Tokyo

NTP server: OFF

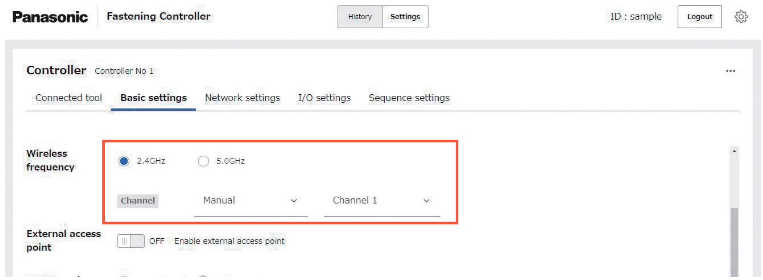
IP address: 0 . 0 . 0 . 0

* Se si utilizza un server NTP, immettere l’indirizzo IP.

Impostazione di radiofrequenza e canale

È possibile impostare la frequenza da utilizzare.
Selezionare “2.4GHz” o “5GHz” e quindi il canale da utilizzare.

* I canali selezionabili differiscono tra “2.4GHz” e “5GHz”.
* È possibile impostare “Auto Channel”.
  Il controller seleziona automaticamente i canali disponibili nell’ambiente circostante all’accensione.
  L’impostazione potrebbe risultare efficace contro le interferenze radio.
* Quando si installano più controller uno vicino all’altro, non impostare canali adiacenti.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Wireless frequency: ● 2.4GHz ○ 5.0GHz

Channel: Manual, Channel 1

External access point: OFF Enable external access point

Voci di impostazione

Firmware

Viene visualizzata la versione firmware del controller.
Fare clic su [Update firmware] per aggiornare il firmware.
Per informazioni su come aggiornare, vedere “Aggiornamento del firmware”.

Fare riferimento a P81

Controller name

È possibile registrare il nome del controller.
Utilizzare un massimo di 32 caratteri alfanumerici.

[Predefinito]	Controller
[Campo di impostazione]	Fino a 32 caratteri alfanumerici

* Per i simboli, è possibile utilizzare solo “-” (trattino), “_” (trattino basso) e “ ” (spazio a mezza larghezza).

Running mode

Selezionare la modalità di funzionamento del controller.

[Predefinito]	Free mode
[Campo di impostazione]	Free mode/Repeat mode (Basic mode/Sequence mode)/ External control mode

Wireless frequency

Selezionare il canale di frequenza da utilizzare per la comunicazione wireless.

[Predefinito]	2.4GHz
[Campo di impostazione]	2.4GHz (Auto/Channel da 1 a 13)/5GHz (Auto/Channel 36, 40, 44, 48)

External access point

È possibile abilitare la comunicazione tramite un punto di accesso esterno.

Fare riferimento a P63

[Predefinito]	OFF (disabilitato)
[Campo di impostazione]	OFF (disabilitato)/ON (abilitato)

* WLAN mode : questa impostazione è per il funzionamento senza utilizzare un punto di accesso esterno.
Normal mode : quando non si gestiscono gli indirizzi IP degli utensili (assegnazione automatica)
Bridge mode : quando si gestiscono (si specificano) gli indirizzi IP degli utensili

Pairing key

È possibile attivare il tasto di associazione.

[Predefinito]	ON (abilitato)
[Campo di impostazione]	OFF (disabilitato)/ON (abilitato)

Reset key

È possibile attivare il tasto di ripristino.

[Predefinito]	ON (abilitato)
[Campo di impostazione]	OFF (disabilitato)/ON (abilitato)

Controller's clock

Impostare l’orologio del controller.
Fare clic su [Adjust clock] per aggiornare l’ora.

Timezone

È possibile impostare un fuso orario desiderato quando si regola l’orologio del controller.

NTP server

Impostare un server NTP se si utilizza la regolazione automatica dell’orologio.

Tool keep alive

Impostare l’intervallo di tempo quando il controller controlla la disponibilità degli utensili nella modalità di comunicazione wireless.
Gli utensili che non rispondono sono rilevati come offline e poi disconnessi.

[Predefinito]	30 s
[Campo di impostazione]	da 10 s a 3600 s

Storage capacity

Attivare o disattivare la notifica di bassa capacità di memoria e impostare il comportamento in caso di carenza di capacità.

[Predefinito]	Notifica - OFF, Funzionamento quando la capacità è insufficiente - Automatically delete data
[Campo di impostazione]	Notifica - OFF/ON (capacità rimanente 10/20/30/40/50%), Funzionamento quando la capacità è insufficiente - Suspend operation/Automatically delete data

L’impostazione predefinita è “Automatically delete data”.
Considerare bene come gestire i dati prima di selezionare “Suspend operation” come necessario.

NOK results

Selezionare come gestire i risultati di errore di fissaggio.

[Predefinito]	Store data only
[Campo di impostazione]	Report to system/Store data only/Ignore

Operation when WLAN disconnected

Selezionare il comportamento in caso di interruzione temporanea della comunicazione wireless.

[Predefinito]	Suspend tool
[Campo di impostazione]	Suspend tool/Enable fastening (Until batch size or 20 rundowns)

Per i dettagli, vedere “COMPORTAMENTO DEGLI UTENSILI CON COMUNICAZIONE WIRELESS DISCONNESSA”. **Fare riferimento a P70**

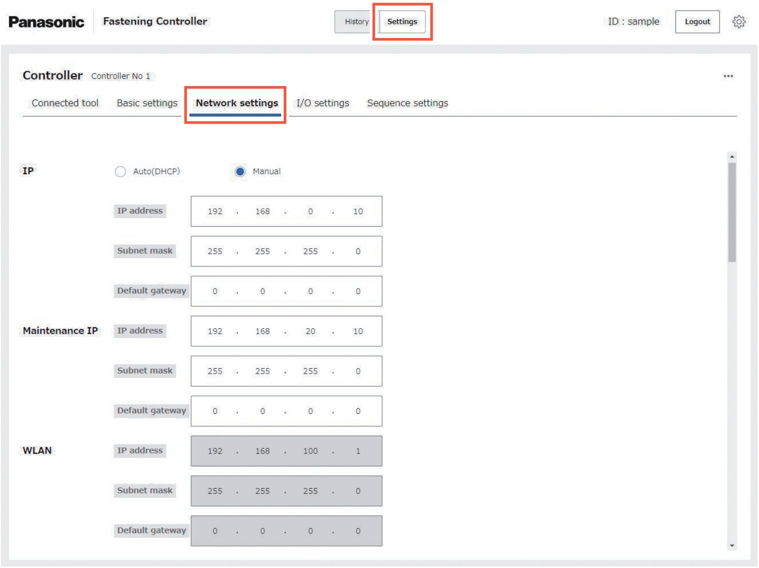
Buzzer

Selezionare il volume e il significato del cicalino.

[Predefinito]	Volume - LOW, Beep - Tutto selezionato
[Campo di impostazione]	Volume - OFF/LOW/HIGH, Beep - Selezionare o deselezionare ciascuna voce

Impostazioni di rete

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Network settings”.
È possibile effettuare impostazioni di rete del controller.



IP ○ Auto(DHCP) ● Manual
IP address 192 . 168 . 0 . 10
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0
Maintenance IP IP address 192 . 168 . 20 . 10
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0
WLAN IP address 192 . 168 . 100 . 1
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0

■ Voci di impostazione

IP

Impostare l’indirizzo IP della porta Ethernet (per la rete).

[Predefinito]	Manual
[Campo di impostazione]	Auto (DHCP)/Manual

* Per “Manual”

[Predefinito]	IP address - 192.168.0.10 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

Maintenance IP

Impostare l’indirizzo IP della porta Ethernet (per la manutenzione).

[Predefinito]	IP address - 192.168.20.10 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

WLAN

Impostare l’indirizzo IP (sul lato del controller) per la comunicazione wireless con gli utensili.

[Predefinito]	IP address - 192.168.100.1 Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

Atlas Open Protocol

Impostare i parametri relativi ad Atlas Open Protocol.
Per i dettagli, vedere “Connessione tramite comunicazione con protocollo aperto”.

Fare riferimento a P57

Access point

Impostare il punto di accesso interno per la comunicazione wireless con gli utensili.

[Predefinito]	SSID - Numero modello del Controller-Indirizzo MAC Security - WPA2
[Campo di impostazione]	SSID - Un massimo di 32 caratteri alfanumerici Security - WPA2

External access point

Impostare il punto di accesso esterno da utilizzare.

[Predefinito]	SSID - Vuoto Security - Vuoto Password - Vuoto
[Campo di impostazione]	SSID - Un massimo di 32 caratteri alfanumerici Security - Open/WPA2 Password - da 8 a 63 caratteri alfanumerici

* Per i simboli, possono essere utilizzati solo “”", “¥”, “,” e “‘ (accento grave)”.
* L’opzione è abilitata solo quando “External access point” è stato impostato su “ON” nell’impostazione di base.

- Per gli indirizzi IP per “IP” e “Maintenance IP”, non utilizzare la stessa subnet. (Quando si imposta un valore predefinito (255.255.255.0) in “Subnet mask”, impostare valori diversi nella parte corrispondente a “192.168.0” o “192.168.20”).

ASSOCIAZIONE CON UN UTENSILE

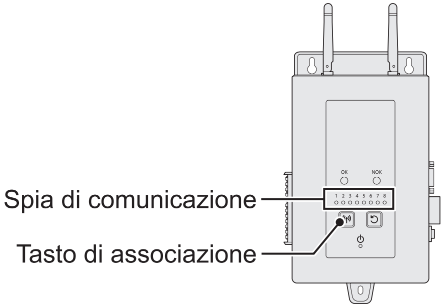
Avvio della modalità di associazione sul Controller

È possibile mettere il controller nella modalità di associazione tramite “Utilizzo del tasto sull’unità” o “Impostazione nella schermata di impostazione”.
Durante 2 minuti di modalità di associazione, avviare la modalità di associazione su un utensile all’interno della copertura per stabilire automaticamente l’associazione.
Se l’associazione non viene stabilita entro il tempo, la modalità di associazione termina.

* Dopo aver cercato di avviare l’associazione, potrebbe essere necessario un certo tempo prima che il controller entri in modalità di associazione.

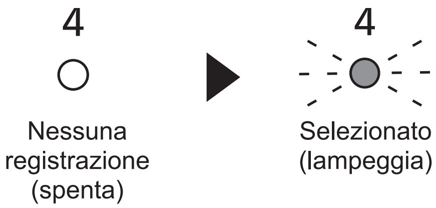
■ Utilizzo del tasto sull’unità

Utilizzare il tasto di associazione sull’unità controller.
Selezionare la spia di comunicazione del numero senza registrazione (spia spenta) e tenere premuto il tasto di associazione per accedere alla modalità di associazione.
Vedere la seguente procedura per i dettagli.

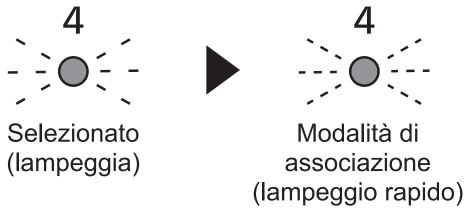

Spia di comunicazione
Tasto di associazione

(Per registrare Utensile N. 4)

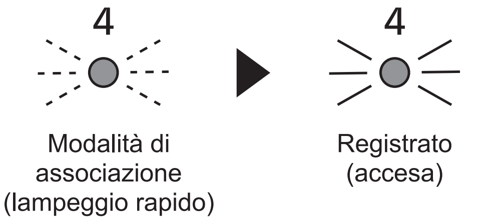
1 **Premere il tasto di associazione sul controller 4 volte per selezionare Utensile N. 4.**
La spia di comunicazione N. 4 lampeggia.


4
Nessuna registrazione (spenta)
4
Selezionato (lampeggia)

2 **Mentre è selezionato N. 4, tenere premuto il tasto di associazione sul controller per entrare in modalità associazione di Utensile N. 4.**
In modalità associazione, la spia di comunicazione N. 4 inizia a lampeggiare rapidamente.

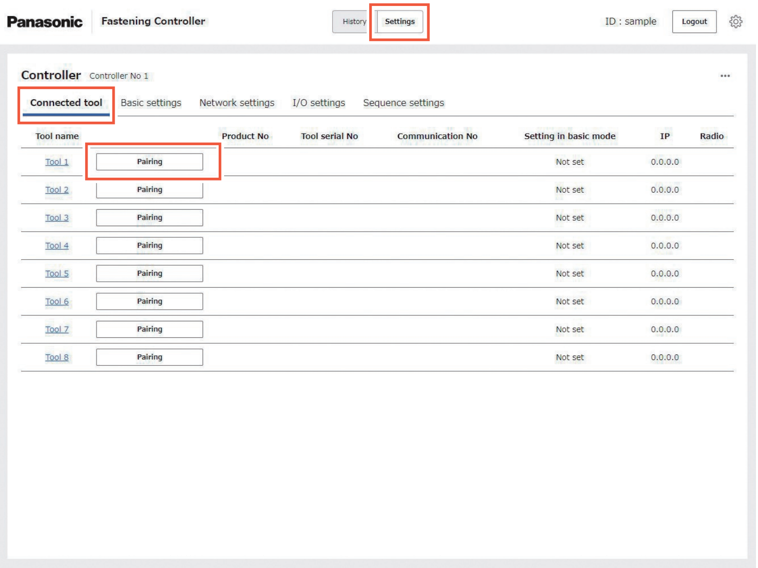

4
Selezionato (lampeggia)
4
Modalità di associazione (lampeggio rapido)

3 **Azionare Utensile N. 4 per stabilire l’associazione.**
La spia di comunicazione N. 4 rimane accesa.
Per informazioni su come utilizzare l’utensile, vedere “Avvio della modalità di associazione su un Utensile”. **Fare riferimento a P30**


4
Modalità di associazione (lampeggio rapido)
4
Registrato (accesa)

■ Impostazione nella schermata di impostazione

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”.
Nella schermata “Connected tool”, fare clic su [Pairing] del numero utensile desiderato.
Dopo che il controller entra nella modalità di associazione, eseguire la procedura in “Avvio della modalità di associazione su un Utensile”. **Fare riferimento a P30**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Pairing				Not set	0.0.0.0	
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

<Per riferimento> Sostituzione con un utensile di ricambio

Quando si sostituisce un utensile associato difettoso con uno nuovo con lo stesso numero di modello, annullare l’associazione **Fare riferimento a P30**, quindi effettuare l’associazione **Fare riferimento a P28** in modo che i parametri di fissaggio e le altre impostazioni possano essere trasferiti automaticamente.

* Per associare con un utensile con un diverso numero prodotto, annullare l’associazione per eliminare le informazioni di associazione attuali prima di associare con esso. **Fare riferimento a P34**

Display al completamento dell’associazione

Al completamento dell’associazione, se la schermata di impostazione non visualizza le informazioni dell’utensile associato, eseguire l’aggiornamento del display nella schermata di impostazione.

* In “Bridge mode” o quando “External access point” è abilitato, impostare l’indirizzo IP dell’utensile prima di avviare la registrazione dell’associazione.

ASSOCIAZIONE CON UN UTENSILE (cont.)

Avvio della modalità di associazione su un Utensile

Mettere il controller in modalità di associazione prima di avviare la modalità di associazione su un utensile.

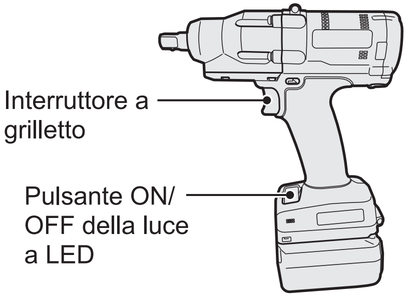
■ Procedura

1 **Impostare il pacco batterie. Mentre si tiene premuto il pulsante ON/OFF della luce a LED, tirare l’interruttore a grilletto.**

L’utensile entra in modalità di associazione.
La comunicazione wireless viene stabilita automaticamente e la registrazione dell’associazione è completata.

* Per i dettagli, vedere le Istruzioni per l’uso dell’utensile.

* Se l’associazione non riesce, annullare l’associazione sul controller e quindi riprovare.

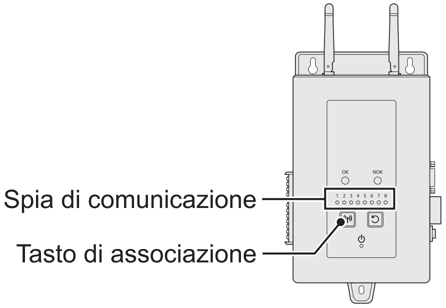

Interruttore a grilletto
Pulsante ON/OFF della luce a LED

Annullamento dell’associazione

È possibile annullare la registrazione dell’associazione sul controller con “Utilizzo del tasto sull’unità” o “Impostazione nella schermata di impostazione”.

■ Utilizzo del tasto sull’unità

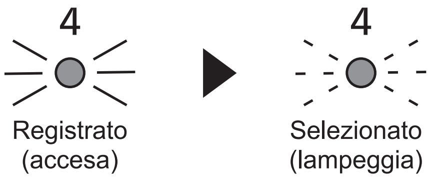
Utilizzare il tasto di associazione sull’unità controller.
Selezionare la spia di comunicazione del numero utensile per cui si desidera annullare la registrazione (spia accesa) e tenere premuto il tasto di associazione per annullare la registrazione dell’associazione.
Vedere la seguente procedura per i dettagli.


OK
NOK
1 2 3 4 5 6 7 8
Spia di comunicazione
Tasto di associazione

(Per annullare Utensile N. 4)

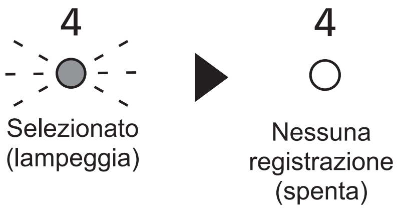
1 **Premere il tasto di associazione sul controller 4 volte per selezionare Utensile N. 4.**

La spia di comunicazione N. 4 lampeggia.


4
Registrato (accesa)
4
Selezionato (lampeggia)

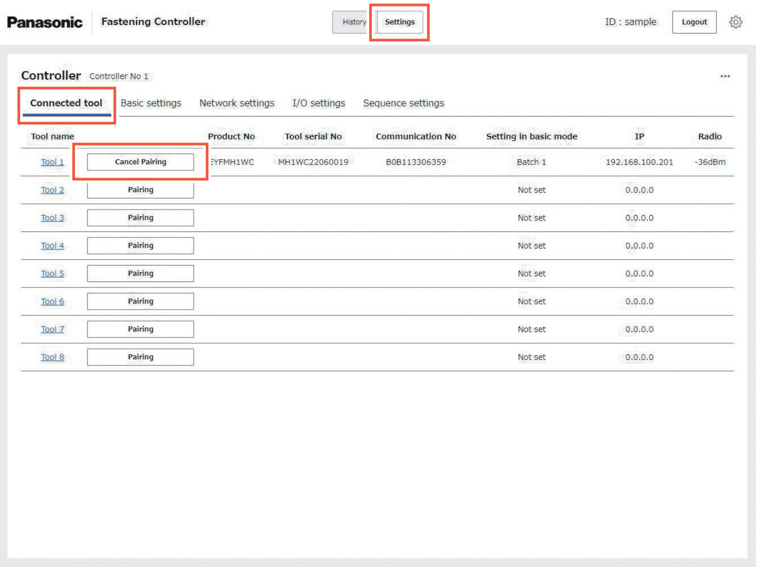
2 **Mentre è selezionato N. 4, tenere premuto il tasto di associazione sul controller per annullare la registrazione dell’associazione di Utensile N. 4.**

Quando l’associazione viene annullata, la spia di comunicazione N. 4 smette di lampeggiare e si spegne.


4
Selezionato (lampeggia)
4
Nessuna registrazione (spenta)

■ Impostazione nella schermata di impostazione

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”.
Nella schermata “Connected tool”, fare clic su [Cancel Pairing] del numero utensile desiderato.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

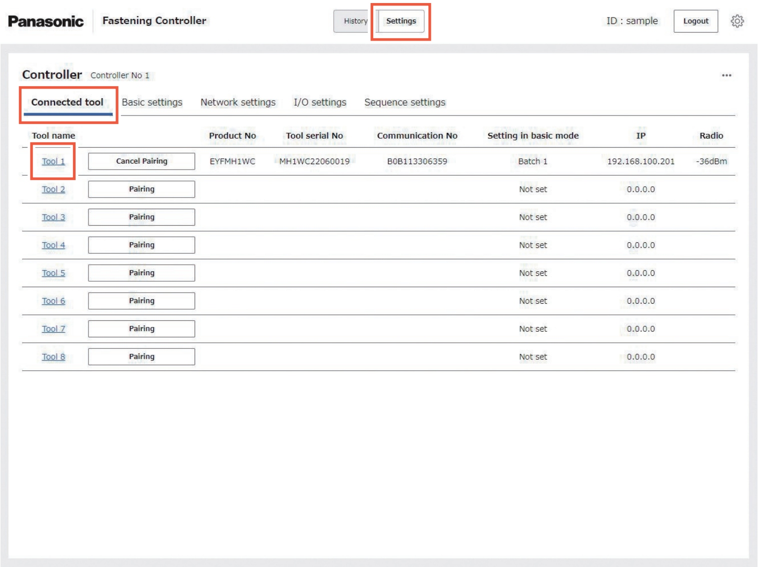
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

* Se il controller non riesce a comunicare con l’utensile a causa dello spegnimento dell’utensile o per qualsiasi altro motivo, selezionare [Force to unpair] nella finestra di conferma annullamento associazione.

CONFIGURAZIONE DI UN UTENSILE

Visualizzazione della schermata Utensile

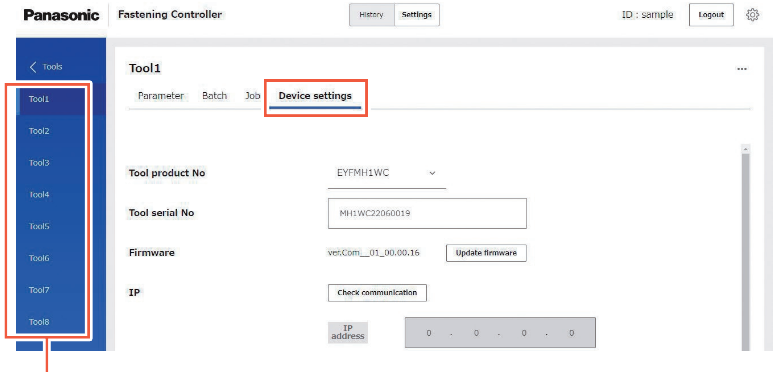
Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”.
Nella schermata “Connected tool”, fare clic sul numero utensile desiderato.
Viene visualizzata la schermata per il numero utensile.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Visualizzazione della schermata di impostazione Utensile

Dalla scheda “Device settings” nella schermata per il numero utensile è possibile effettuare le impostazioni di base dell’utensile e immettere parametri comuni.
* Per commutare l’utensile, selezionare quello desiderato da elenco utensili.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
Batch
Job
Device settings
Update firmware
Check communication

Tool1

Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16
IP
IP address: 0 . 0 . 0 . 0

Elenco utensili

Voci di impostazione Utensile

Tool product No

Selezionare il numero prodotto dell’utensile.

[Predefinito]	Vuoto
[Campo di impostazione]	Selezionabile dal menu a discesa

* Selezionato automaticamente se si stabilisce in anticipo l’associazione.
* Il numero prodotto utensile non può essere modificato dopo l’associazione. Annullare l’associazione e quindi modificarlo.

Tool serial No

È possibile impostare e visualizzare l’identificazione dell’unità utensile.

[Predefinito]	ID modello a 5 cifre + numero di serie a 8 cifre (anno di produzione a 2 cifre + mese a 2 cifre + lotto di produzione a 4 cifre)
[Campo di impostazione]	Da 13 a 16 caratteri alfanumerici

* Il numero modello potrebbe non essere riconosciuto correttamente se le informazioni vengono cambiate.
Non modificarle a meno che non sia richiesto dalla norma di gestione.

Firmware

Viene visualizzata la versione firmware della parte di comunicazione dell’utensile.
Fare clic su [Update firmware] per aggiornare il firmware.
Per informazioni su come aggiornare, vedere “Aggiornamento del firmware”.

Fare riferimento a P81

IP

Impostare l’indirizzo IP (sul lato utensile) per la comunicazione wireless con gli utensili.

[Predefinito]	IP address - 192.168.100.201 Da (Utensile 1) a 208 (Utensile 8) Subnet mask - 255.255.255.0 Default gateway - 0.0.0.0

* Diventano tutti “0.0.0.0” in Bridge mode o quando “External access point” è abilitato.

Tool’s clock

Viene visualizzato l’orologio utensile. Fare clic su [Adjust to controller] per regolare l’ora.

- Per le altre voci di impostazione, vedere le Istruzioni per l’uso dell’utensile.

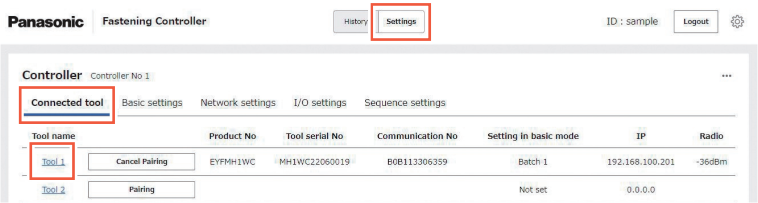
CONFIGURAZIONE DI UN UTENSILE (cont.)

Eliminazione delle informazioni di registrazione

Per interrompere l'uso di un utensile o associare un utensile a un numero di prodotto diverso, eliminare le informazioni di associazione.
* Annullare l'associazione in anticipo.

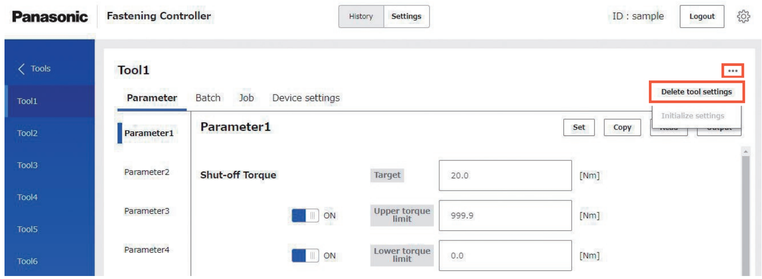
1 **Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "Connected tool".**
Viene visualizzata la schermata "Connected tool".

2 **Nella schermata "Connected tool", fare clic sul numero utensile desiderato.**
Viene visualizzata la schermata per il numero utensile.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

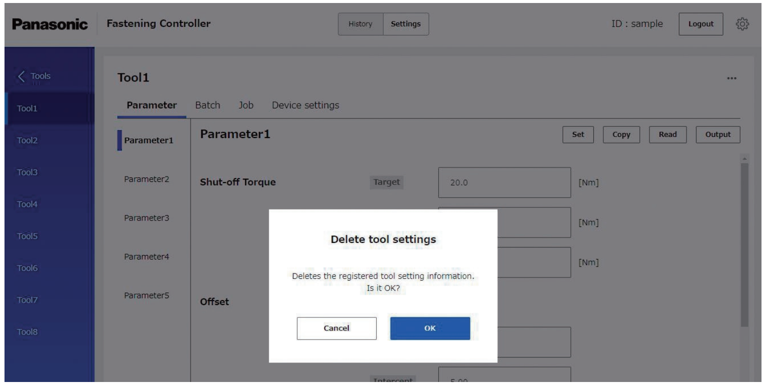
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Fare clic su ··· (tasto opzione utensile) e quindi su [Delete tool settings].**
Viene visualizzata la schermata "Delete tool settings".


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Parameter1
Parameter2
Parameter3
Parameter4
Set
Copy

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]

4 **Nella schermata "Delete tool settings", fare clic su [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
Offset
Cancel
OK

Delete tool settings

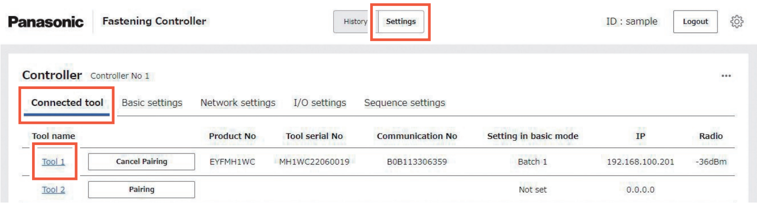
Deletes the registered tool setting information.
Is it OK?

Ripristino alle impostazioni di fabbrica

È possibile ripristinare un utensile alle impostazioni di fabbrica.
* Il ripristino annulla l'associazione.

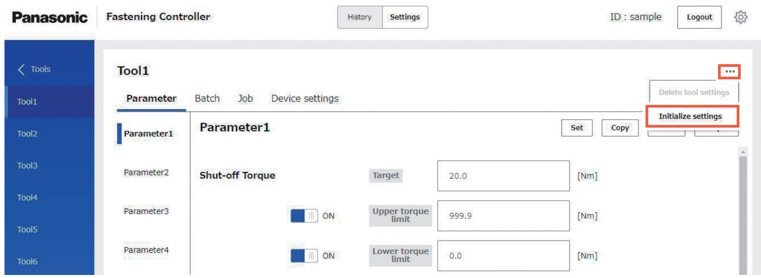
1 **Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "Connected tool".**
Viene visualizzata la schermata "Connected tool".

2 **Nella schermata "Connected tool", fare clic sul numero utensile desiderato.**
Viene visualizzata la schermata per il numero utensile.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

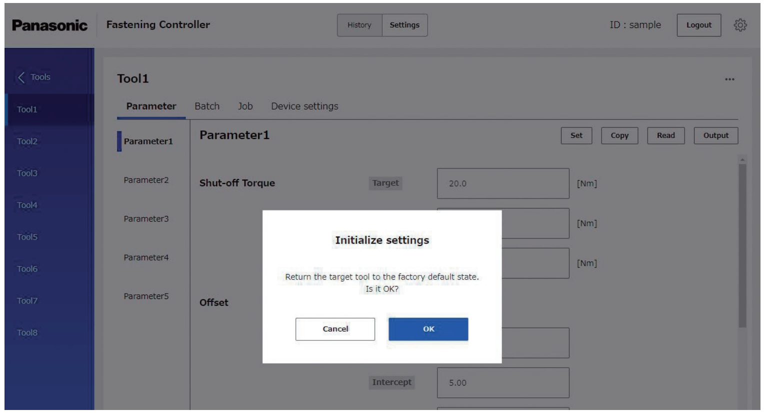
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Fare clic su ··· (tasto opzione utensile) e quindi su [Initialize settings].**
Viene visualizzata la schermata "Initialize settings".


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool1
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Parameter1
Parameter2
Parameter3
Parameter4
Set
Copy

Parameter1
Shut-off Torque
Target 20.0 [Nm]
ON Upper torque limit 999.9 [Nm]
ON Lower torque limit 0.0 [Nm]

4 **Nella schermata "Initialize settings", fare clic su [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
Offset
Intercept
Cancel
OK

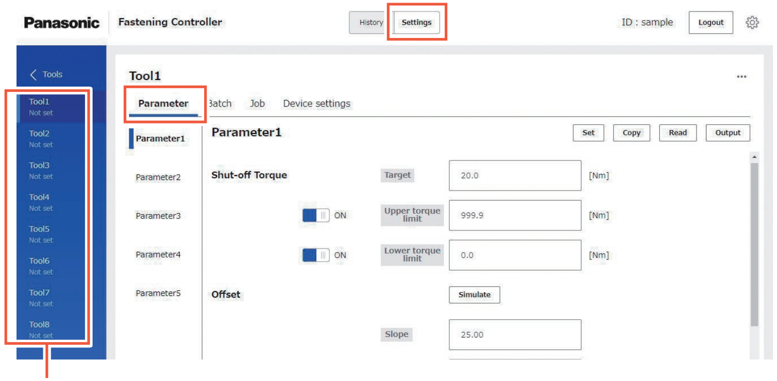
Initialize settings

Return the target tool to the factory default state.
Is it OK?

IMPOSTAZIONE DEI PARAMETRI DI FISSAGGIO DEGLI UTENSILI

Impostazione dei parametri

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”.
Nella schermata “Connected tool”, fare clic sul numero utensile desiderato.
Nella schermata del numero utensile, selezionare la scheda “Parameter” per effettuare le impostazioni.
È possibile impostare cinque parametri (Parametri da 1 a 5) per ciascun utensile.
* Per commutare l’utensile, selezionare quello desiderato da elenco utensili.

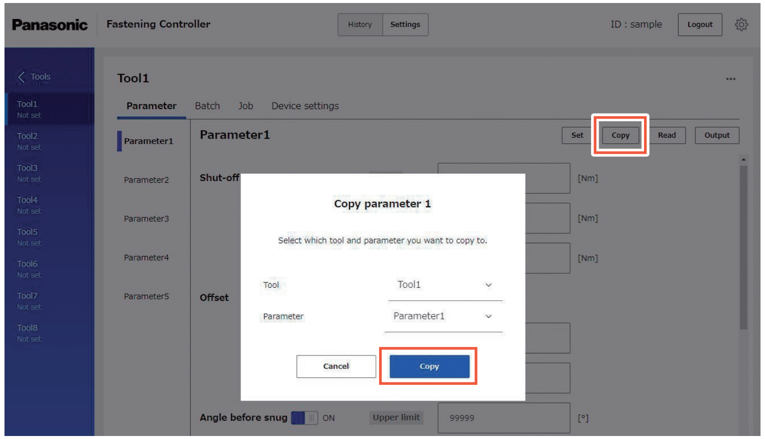

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Parameter1
Shut-off Torque
Offset
Simulate

Target 20.0 [Nm]
Upper torque limit ON 999.9 [Nm]
Lower torque limit ON 0.0 [Nm]
Slope 25.00

Elenco utensili

Copia dei parametri

È possibile copiare il parametro impostato per creare da esso un nuovo parametro o utilizzarlo su un altro utensile.
Nella scheda “Parameter” della schermata per il numero utensile, fare clic su [Copy] per visualizzare la schermata per copiare il parametro. Nella schermata, selezionare la destinazione e fare clic su [Copy].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Parameter1
Shut-off
Offset
Cancel
Copy

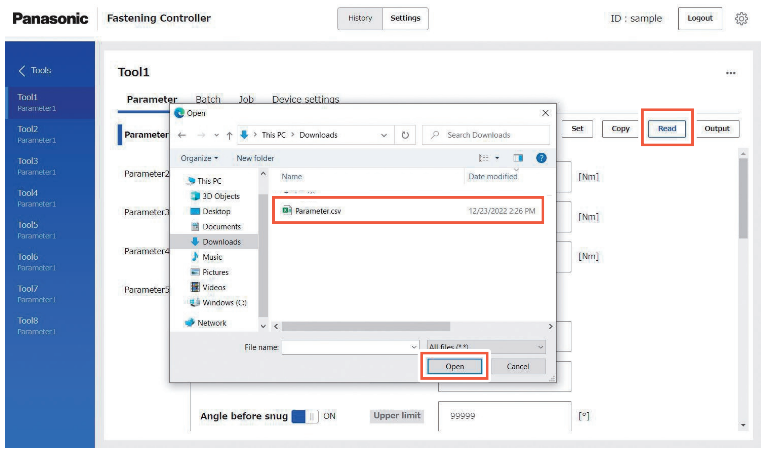
Copy parameter 1

Select which tool and parameter you want to copy to.

Tool: Tool1
Parameter: Parameter1
Angle before snug ON Upper limit 99999 [°]

Caricamento dei parametri

È possibile registrare un parametro caricando un file di parametri salvato nel PC per la configurazione nel controller.
È inoltre possibile caricare un file di parametri creato con “Tool Manager”.
Dalla scheda “Parameter” della schermata per il numero utensile, fare clic su [Read] e aprire il file parametro.

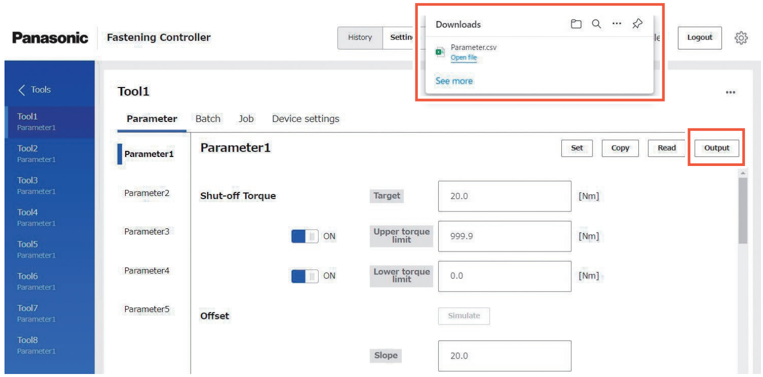

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Parameter1
Tool2 Parameter1
Tool3 Parameter1
Tool4 Parameter1
Tool5 Parameter1
Tool6 Parameter1
Tool7 Parameter1
Tool8 Parameter1
Tool1
Parameter
Batch
Job
Device settings
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Open
This PC › Downloads
Search Downloads
Organize
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
Name
Date modified
File name:
All files (*.*)
Open
Cancel

Parameter.csv 12/23/2022 2:26 PM
Angle before snug ON Upper limit 99999 [°]

Esportazione dei parametri

È possibile esportare il parametro creato al PC per la configurazione.
È possibile utilizzare il file esportato come backup, copiarlo su un altro controller o spostarlo su un altro PC per la configurazione.
Dalla scheda “Parameter” nella schermata per il numero utensile, fare clic su [Output] e salvare il file parametro.

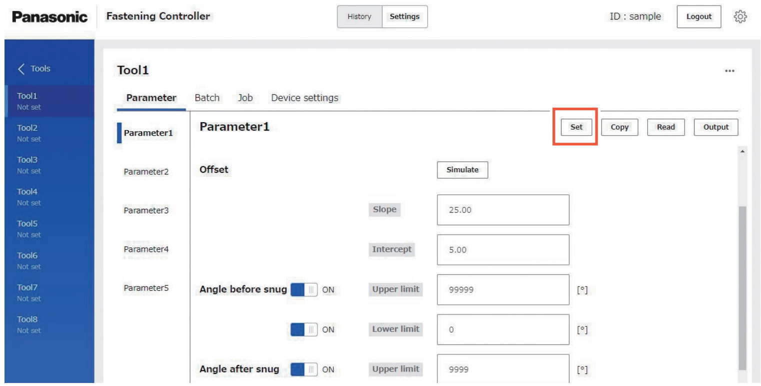
Non modificare il file parametro esportato.
In caso contrario, potrebbe non essere letto correttamente.


Panasonic
Fastening Controller
History
Logout
Downloads
Parameter.csv
Open file
See more
Tools
Tool1 Parameter1
Tool2 Parameter1
Tool3 Parameter1
Tool4 Parameter1
Tool5 Parameter1
Tool6 Parameter1
Tool7 Parameter1
Tool8 Parameter1
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Parameter1
Shut-off Torque
Offset
Simulate

Target 20.0 [Nm]
Upper torque limit ON 999.9 [Nm]
Lower torque limit ON 0.0 [Nm]
Slope 20.0

Registrazione dei parametri

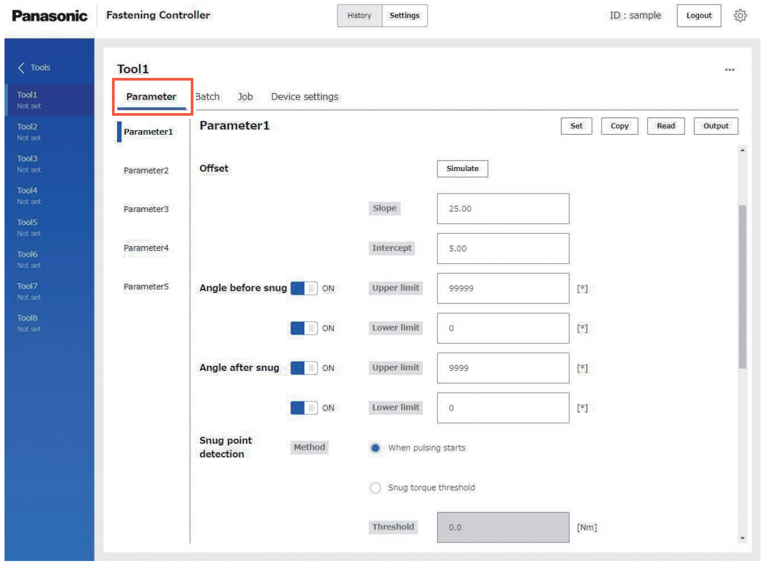
Registrare un parametro per utilizzarlo per controllare un utensile in “Free mode” della modalità di esecuzione del controller.
* Non viene usato in “Repeat mode” e “External control mode”.
(Per “Free mode”, “Repeat mode” e “External control mode”, vedere “Impostazione della modalità di esecuzione”. **Fare riferimento a P45**
Dalla scheda “Parameter” nella schermata per il numero utensile, fare clic su [Set].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Not set
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Offset
Simulate
Slope
Intercept
Angle before snug
ON
Upper limit
Lower limit
Angle after snug
[°]

Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]

Voci dei parametri

Impostare le voci dei parametri di fissaggio.
Per i dettagli, vedere le Istruzioni per l’uso dell’utensile.

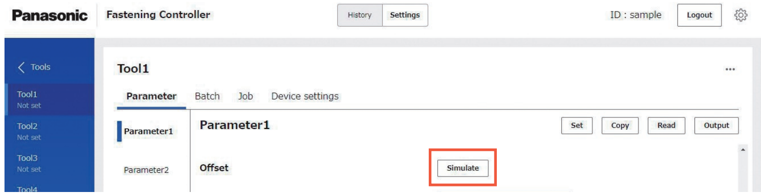

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Not set
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Offset
Simulate
Snug point detection
Method
When pulsing starts
Snug torque threshold

Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]
ON Lower limit 0 [°]
Snug point detection Method ● When pulsing starts ○ Snug torque threshold
Threshold 0.0 [Nm]

■ Impostazione di un offset (Parametro, riferimento ①)

Impostare un offset in modo da far corrispondere il valore di uscita della coppia con il valore misurato effettivo.

1 **Dalla scheda “Parameter” nella schermata per il numero utensile, fare clic su [Simulate] in “Offset”.**
Viene visualizzata la pagina “Offset”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Not set
Tool2
Tool3
Tool4
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Set
Copy
Read
Output
Offset
Simulate

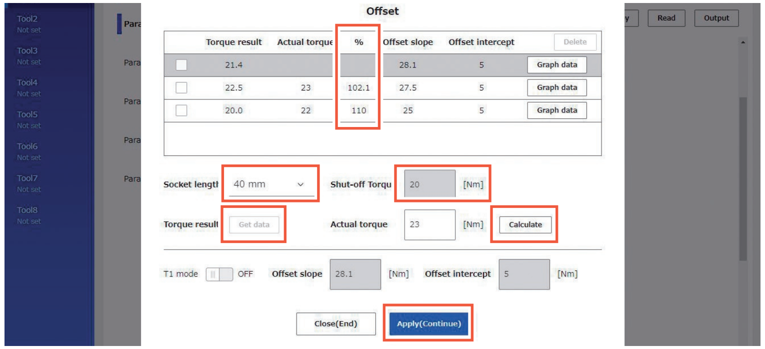
2 **Immettere un valore da impostare e fare clic su [Apply].**
Immettere “Socket length” e “Shut-off Torque”.
Fare clic su [Apply] per inviare i valori di ingresso all’utensile.
L’utensile accede alla modalità di offset (mostrata come T2).

3 **Eseguire il lavoro effettivo utilizzando l’utensile e quindi fare clic su [Get data].**
Un registro cronologia di fissaggio viene aggiunto all’elenco cronologia nella pagina “Offset”.
* Anche se l’utensile diventa pronto per il fissaggio (“modalità C”) dopo aver fatto clic su [Get data], non avviare il fissaggio normale fino al termine dell’impostazione di offset.

4 **Mentre è selezionato il registro della cronologia di fissaggio ottenuto, inserire un valore attuale di coppia misurata (nuovo fissaggio) e fare clic su [Calculate].**
Un offset che fa corrispondere la coppia in uscita alla coppia misurata effettiva dell’utensile viene calcolato automaticamente.

5 **Confermare che l’offset sia aggiornato e fare clic su [Apply].**
Il valore regolato viene inviato all’utensile.

6 **Ripetere i passaggi da 3 a 5 finché la differenza non diventa sufficientemente piccola.**
* Mantenere i valori nella colonna “%” entro l’intervallo compreso tra 95% e 105%.

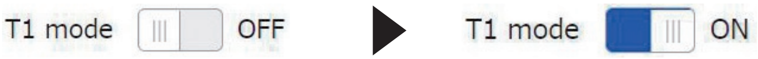

Offset
Tool2
Not set
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Read
Output
Delete
Graph data
Get data
Calculate
Close(End)
Apply(Continue)

	Torque result	Actual torque	%	Offset slope	Offset intercept
☐	21.4			28.1	5
☐	22.5	23	102.1	27.5	5
☐	20.0	22	110	25	5

Socket length 40 mm
Shut-off Torque 20 [Nm]
Torque result
Actual torque 23 [Nm]
T1 mode OFF
Offset slope 28.1 [Nm]
Offset intercept 5 [Nm]

[Info su T1 mode]

Selezionando [T1 mode] nella schermata di impostazione offset si mette il controller nella modalità di uscita minima.
(Deselezionando [T1 mode] si riporta il controller a “Offset Mode”.)



T1 mode OFF ▶ T1 mode ON

T1 mode
[Descrizione] È possibile controllare se il controllo di coppia funziona correttamente quando la coppia di destinazione è vicina al limite inferiore del campo di controllo di coppia del controller. In questa modalità, il controller viene spento ai conteggi minimi al minuto (uscita minima). A questo punto, il registro cronologia lavori non viene memorizzato. Dopo aver lavorato in questa modalità, utilizzare un calibro di coppia o una chiave torsiometrica per confermare che la coppia di uscita del controller non abbia superato la coppia di destinazione. L’unità controller potrebbe non essere utilizzabile per alcuni lavori se la coppia di uscita supera la coppia di destinazione in questa modalità.

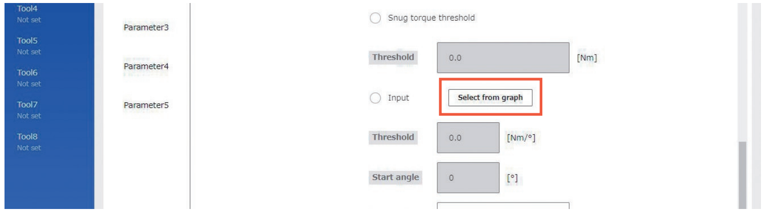
* Il fissaggio con altri utensili viene sospeso durante l’impostazione di un offset.

■ Impostazione di un punto di aderenza (Parametro, riferimento ②)

È possibile impostare un punto di aderenza in base a una forma d’onda.

1 Dalla scheda “Parameter” nella schermata per il numero utensile, fare clic su [Select from graph] in “Snug point detection”.

- La schermata “Snug point detection” viene visualizzata e mostra la forma d’onda corrente dell’utensile.
- I dati della cronologia di fissaggio sono necessari come riferimento. Eseguire questa impostazione dopo almeno un fissaggio.
- È possibile commutare la forma d’onda da utilizzare con le frecce (①).

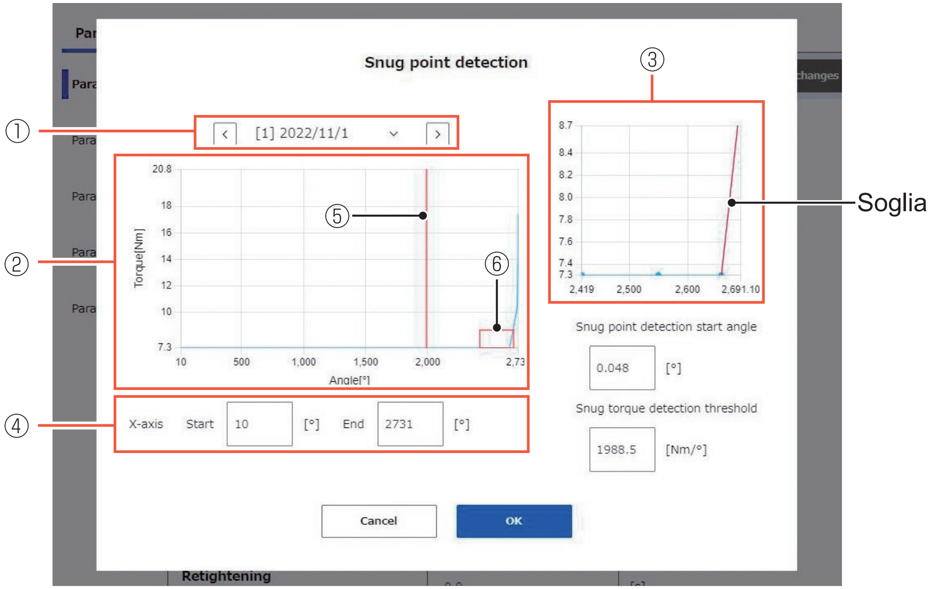


Tool4
Not set
Tool5
Not set
Tool6
Not set
Tool7
Not set
Tool8
Not set
Parameter3
Parameter4
Parameter5
Select from graph

○ Snug torque threshold
Threshold 0.0 [Nm]
○ Input
Threshold 0.0 [Nm/°]
Start angle 0 [°]

2 Impostare una soglia nel grafico.

- La finestra principale (②) mostra un’intera forma d’onda e la finestra secondaria (③) ingrandisce una parte specifica dell’intera forma d’onda.
- È possibile modificare il campo della forma d’onda mostrato nella finestra principale immettendo gli angoli iniziale e finale in “X-axis” (④) sotto il grafico.
- È possibile impostare l’angolo iniziale di rilevamento del punto di aderenza (⑤) spostando la barra verticale.
- Regolare la posizione del riquadro di selezione (⑥) nella finestra principale per cambiare il campo di visualizzazione della finestra secondaria.
- Selezionare una soglia da impostare nella finestra secondaria (③).



Snug point detection
①
②
③
④
⑤
⑥
Soglia
[1] 2022/11/1
20.8
18
16
14
12
10
7.3
Torque[Nm]
10
500
1,000
1,500
2,000
2,73
Angle[°]
8.7
8.4
8.2
8.0
7.8
7.6
7.4
7.3
2,419
2,500
2,600
2,691.10
Cancel
OK
Retightening

X-axis Start 10 [°] End 2731 [°]

Snug point detection start angle 0.048 [°]

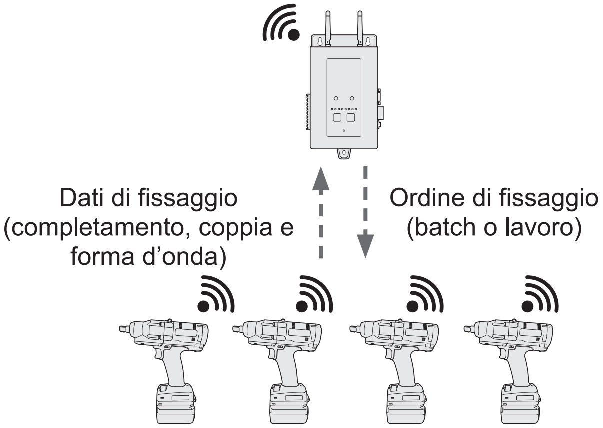
Snug torque detection threshold 1988.5 [Nm/°]

IMPOSTAZIONE DELLA MODALITÀ DI CONTROLLO DEL FISSAGGIO

Controllo del fissaggio con gli utensili

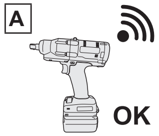
Il controller può controllare fino a 8 utensili collegati per il fissaggio.
Riceve i dati di fissaggio di ciascun lavoro di fissaggio e conta la quantità fissata.

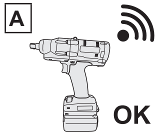
Numero massimo di dispositivi collegati: 8

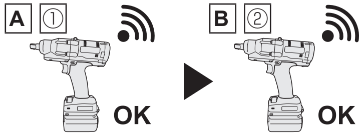


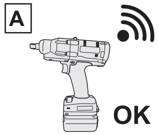
Tipiche combinazioni di controllo del fissaggio

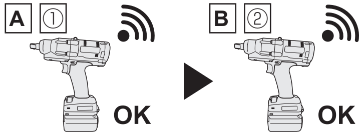
È possibile creare combinazioni diverse di impostazioni di controllo del fissaggio.
Vedere le combinazioni tipiche riportate di seguito.

<table>
<tr><th rowspan="2">Modalità</th><th rowspan="2">[Free mode]</th><th colspan="2">[Repeat mode]</th></tr>
<tr><th>[Basic mode]</th><th>[Sequence mode]</th></tr>
<tr><td>Criterio di superamento</td><td>–
(La quantità non è specificata)</td><td>Il fissaggio della quantità desiderata è completo</td><td>Gli utensili completano il fissaggio delle rispettive quantità di destinazione nell'ordine specificato</td></tr>
<tr><td>[Batch]
"Valore di impostazione singolo"
(Fissaggio nella stessa condizione)
* Tipo singolo di pezzo</td>
<td>

<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>10 Nm</td><td>∞</td></tr></table>
Parameter</td>
<td>

<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>
Batch</td>
<td>

<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>
<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>20 Nm</td><td>5</td></tr></table>
Batch e Sequence</td></tr>
<tr><td>[Job]
Valori multipli di impostazione
(Fissaggio in condizioni diverse)
* Tipi multipli di pezzo</td>
<td></td>
<td>

<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>
Job</td>
<td>

<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>
<table><tr><th>Valore impostato</th><th>Quantità di destinazione</th></tr><tr><td>20 Nm</td><td>5</td></tr><tr><td>30 Nm</td><td>10</td></tr></table>
Job e Sequence</td></tr>
<tr><td>Osservazione</td><td>–</td><td>* Un lavoro può contenere fino a 10 passaggi.</td><td>* Una sequenza può contenere fino a 10 passaggi.</td></tr>
</table>

IMPOSTAZIONE DELLA MODALITÀ DI CONTROLLO DEL FISSAGGIO (cont.)

Numero di combinazioni registrabili

Vedere il numero di combinazioni che possono essere registrate nel controller come di seguito.

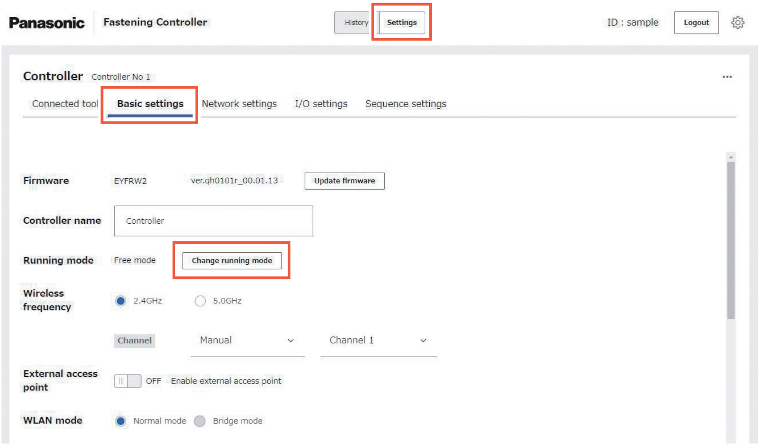
Modalità del controller		Impostazione dell'utensile	Numero di combinazioni registrabili
Free mode		**Parameter**	○ 5 combinazioni per ciascun utensile
Repeat mode	**Basic mode (controllo indipendente)**	**Batch**	○ 5 combinazioni per ciascun utensile
		Job	○ 5 combinazioni per ciascun utensile
	Sequence mode (controllo sequenziale)	**Batch/Job**	○ 5 combinazioni
External control mode		–	○

Impostazione della modalità di esecuzione

Impostare la modalità di esecuzione del controller come di seguito.

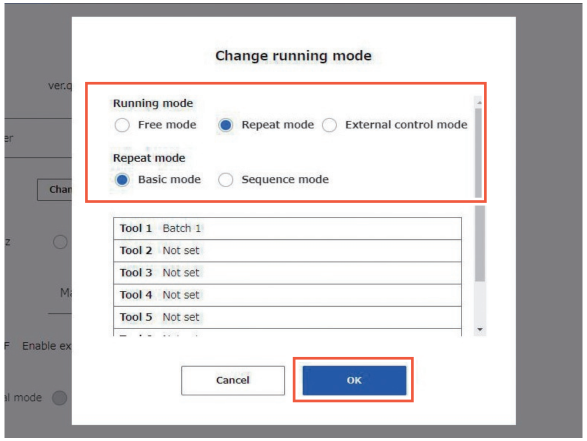
1. **Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "Basic Settings".**

2. **Nella scheda "Basic settings", fare clic su [Change running mode].**
   Viene visualizzata la schermata "Change running mode".


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name: Controller
Running mode: Free mode
Wireless frequency: ● 2.4GHz ○ 5.0GHz
Channel: Manual, Channel 1
External access point: OFF Enable external access point
WLAN mode: ● Normal mode ○ Bridge mode

3. **Selezionare una "Running mode" e fare clic su [OK].**
   La modalità di esecuzione è stata impostata.
   Selezionare una modalità di esecuzione da "Free mode", "Repeat mode" e "External control mode".
   Per "Repeat mode", selezionare "Basic mode" o "Sequence mode".
   Fare riferimento da P46 a 49


Change running mode
Cancel
OK

Running mode: ○ Free mode ● Repeat mode ○ External control mode
Repeat mode: ● Basic mode ○ Sequence mode

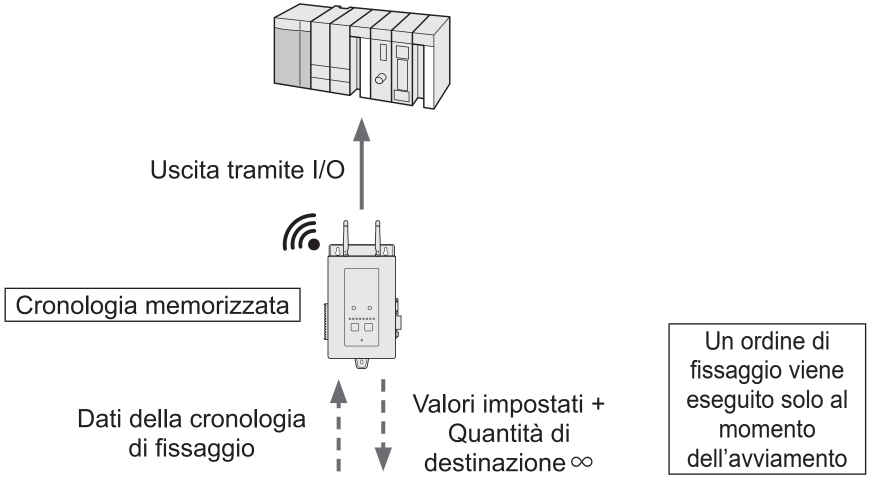
Tool 1	Batch 1
Tool 2	Not set
Tool 3	Not set
Tool 4	Not set
Tool 5	Not set

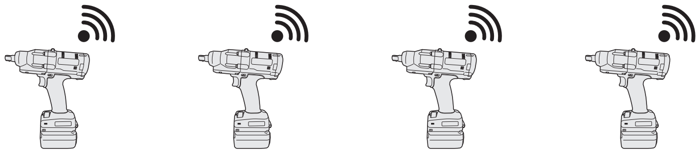
* Registrare "Parameter" prima di impostare su "Free mode".
* Registrare un "Batch/Job" prima di impostare su "Repeat mode".

■ Free mode

Questa modalità consente il fissaggio incondizionato senza specificare la quantità da fissare.
Gli utensili utilizzano parametri preregistrati per il fissaggio.
Fino a 8 utensili possono condurre un funzionamento indipendente.
Le impostazioni di uscita I/O sono abilitate.

* Utilizzare la modalità quando la quantità fissata viene conteggiata da un dispositivo esterno.


Uscita tramite I/O
Cronologia memorizzata
Dati della cronologia di fissaggio
Valori impostati + Quantità di destinazione ∞
Un ordine di fissaggio viene eseguito solo al momento dell'avviamento



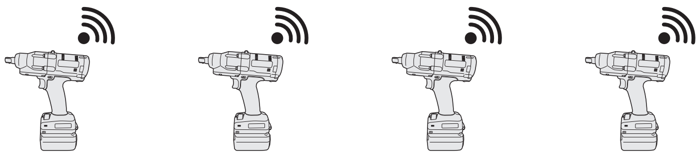
Valore impostato	Quantità di destinazione
10 Nm	∞

Valore impostato	Quantità di destinazione
20 Nm	∞

Valore impostato	Quantità di destinazione
30 Nm	∞

Valore impostato	Quantità di destinazione
40 Nm	∞

Fino a 8 utensili possono essere controllati contemporaneamente



Valore impostato	Quantità di destinazione
50 Nm	∞

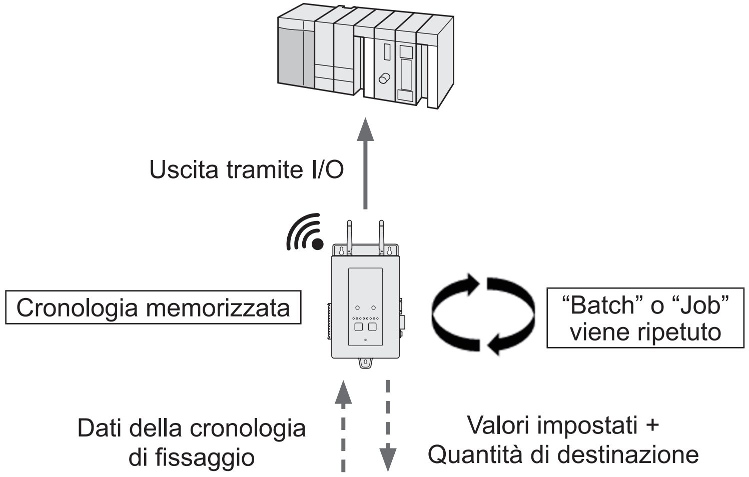
Valore impostato	Quantità di destinazione
60 Nm	∞

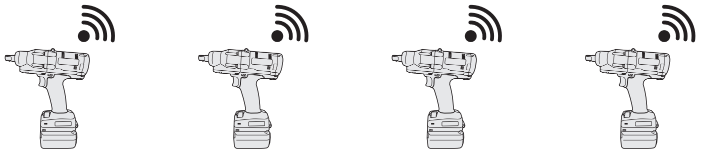
Valore impostato	Quantità di destinazione
70 Nm	∞

Valore impostato	Quantità di destinazione
80 Nm	∞

■ Repeat mode (Basic mode)

Questa modalità ripete un processo “Batch” o “Job”.
Gli utensili utilizzano impostazioni “Batch” o “Job” preregistrate per il fissaggio.
Fino a 8 utensili possono condurre un funzionamento indipendente.
Le impostazioni di uscita I/O sono abilitate.


Uscita tramite I/O
Cronologia memorizzata
“Batch” o “Job” viene ripetuto
Dati della cronologia di fissaggio
Valori impostati + Quantità di destinazione



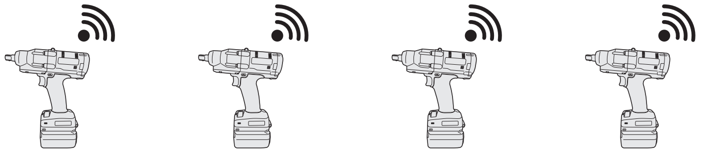
Valore impostato	Quantità di destinazione
10 Nm	10

Valore impostato	Quantità di destinazione
20 Nm	10

Valore impostato	Quantità di destinazione
30 Nm	10

Valore impostato	Quantità di destinazione
40 Nm	10

Fino a 8 utensili possono essere controllati contemporaneamente



Valore impostato	Quantità di destinazione
50 Nm	10
60 Nm	5
70 Nm	5

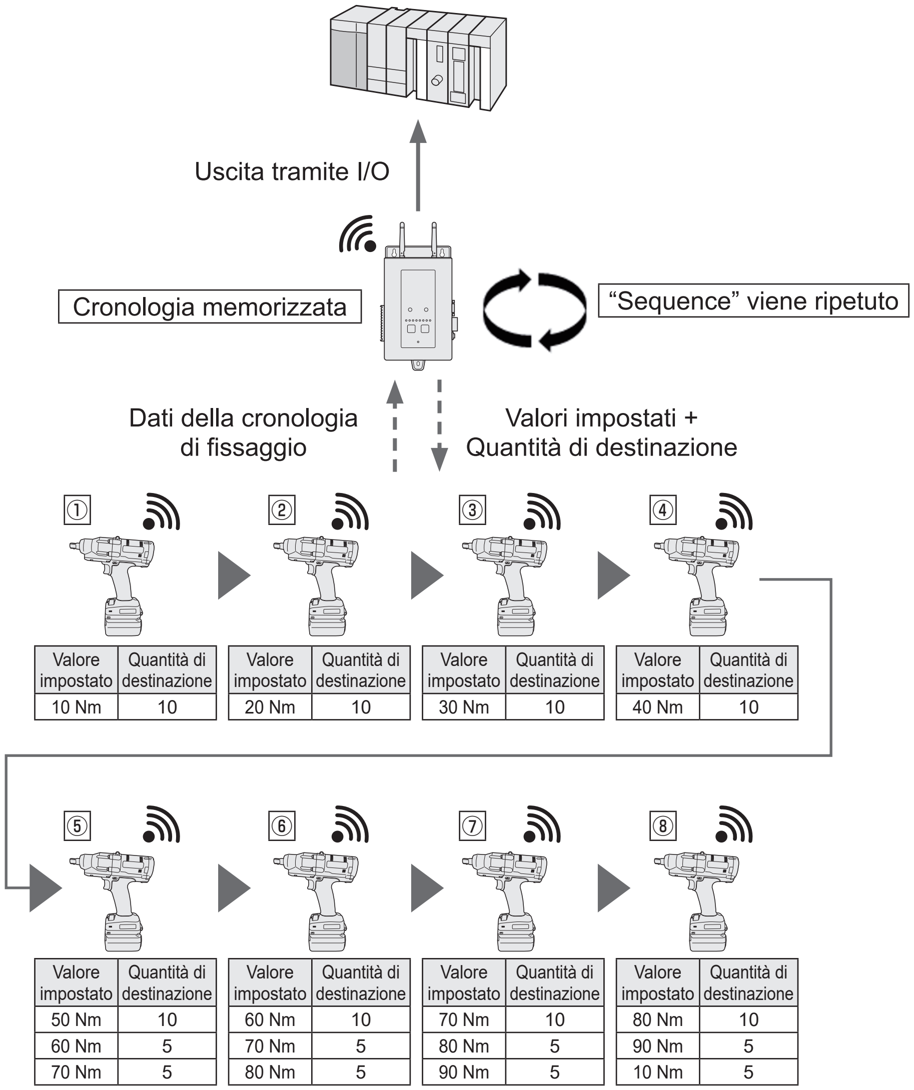
Valore impostato	Quantità di destinazione
60 Nm	10
70 Nm	5
80 Nm	5

Valore impostato	Quantità di destinazione
70 Nm	10
80 Nm	5
90 Nm	5

Valore impostato	Quantità di destinazione
80 Nm	10
90 Nm	5
10 Nm	5

■Repeat mode (Sequence mode)

Questa modalità ripete un processo di “Sequence” in cui gli utensili disponibili sono controllati nell’ordine.
Gli utensili utilizzano impostazioni preregistrate di “Sequence” per il fissaggio sequenziale.
È possibile impostare fino a 10 passaggi. Una sequenza supporta fino a 8 utensili, ma consente di azionare solo un utensile per volta.
Le impostazioni di uscita I/O sono abilitate.


Uscita tramite I/O
Cronologia memorizzata
“Sequence” viene ripetuto
Dati della cronologia di fissaggio
Valori impostati + Quantità di destinazione
①
②
③
④
⑤
⑥
⑦
⑧

①

Valore impostato	Quantità di destinazione
10 Nm	10

②

Valore impostato	Quantità di destinazione
20 Nm	10

③

Valore impostato	Quantità di destinazione
30 Nm	10

④

Valore impostato	Quantità di destinazione
40 Nm	10

⑤

Valore impostato	Quantità di destinazione
50 Nm	10
60 Nm	5
70 Nm	5

⑥

Valore impostato	Quantità di destinazione
60 Nm	10
70 Nm	5
80 Nm	5

⑦

Valore impostato	Quantità di destinazione
70 Nm	10
80 Nm	5
90 Nm	5

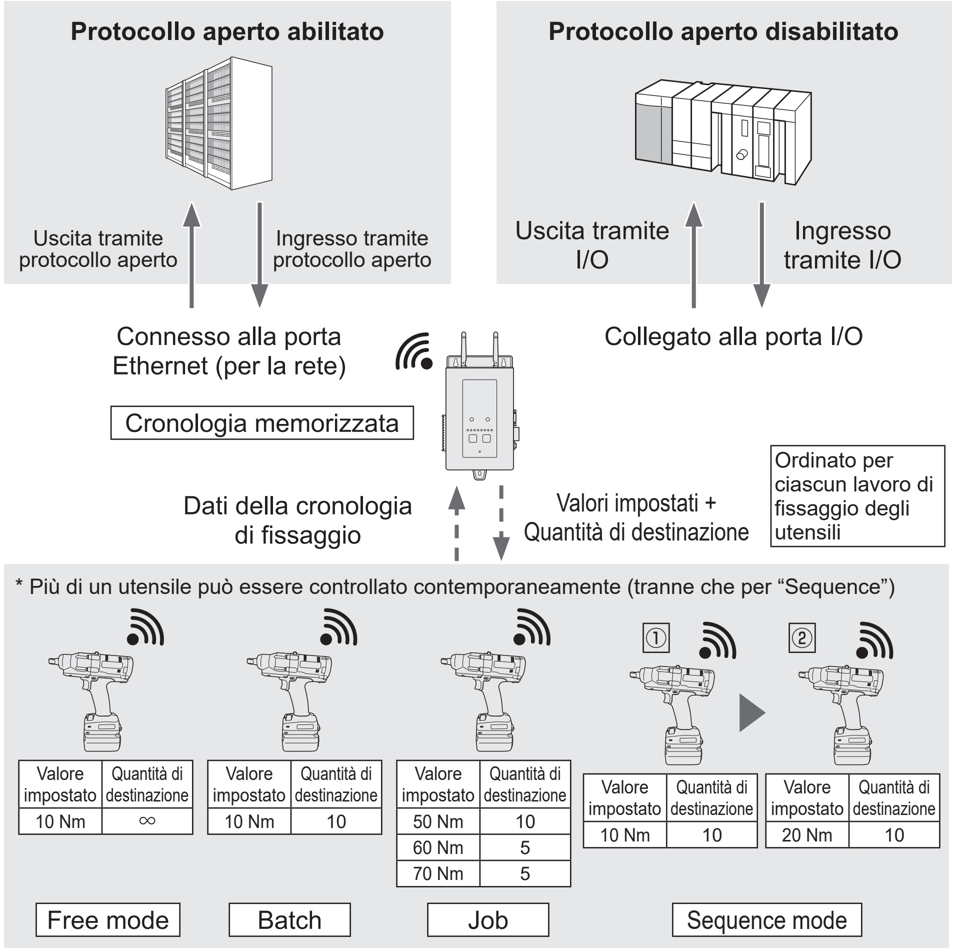
⑧

Valore impostato	Quantità di destinazione
80 Nm	10
90 Nm	5
10 Nm	5

■External control mode

Questa modalità consente il controllo del fissaggio nell’ordine stabilito tramite un dispositivo esterno (sistema host).
Sono supportati i seguenti 2 tipi di controllo.

- **Controllo mediante protocollo aperto (con protocollo aperto abilitato)**
  Il fissaggio è controllato tramite protocollo aperto da un sistema host.
  Fino a 8 utensili possono essere controllati in modo indipendente.
  * I controlli di lavoro e sequenza non sono supportati.
- **Controllo mediante I/O (con protocollo aperto disabilitato)**
  Il fissaggio è controllato da ingressi tramite la porta I/O da un dispositivo esterno.
  Fino a 8 utensilipossono essere controllati in modo indipendente o sequenziale.


Protocollo aperto abilitato
Protocollo aperto disabilitato
Uscita tramite protocollo aperto
Ingresso tramite protocollo aperto
Uscita tramite I/O
Ingresso tramite I/O
Connesso alla porta Ethernet (per la rete)
Collegato alla porta I/O
Cronologia memorizzata
Dati della cronologia di fissaggio
Valori impostati + Quantità di destinazione
Ordinato per ciascun lavoro di fissaggio degli utensili
①
②
Free mode
Batch
Job
Sequence mode

* Più di un utensile può essere controllato contemporaneamente (tranne che per “Sequence”)

Free mode

Valore impostato	Quantità di destinazione
10 Nm	∞

Batch

Valore impostato	Quantità di destinazione
10 Nm	10

Job

Valore impostato	Quantità di destinazione
50 Nm	10
60 Nm	5
70 Nm	5

Sequence mode ①

Valore impostato	Quantità di destinazione
10 Nm	10

Sequence mode ②

Valore impostato	Quantità di destinazione
20 Nm	10

* Se il controller si spegne durante il fissaggio, questo non riprende dopo l’accensione del controller. Il fissaggio si riavvia quando ordinato da un dispositivo esterno.
* Le impostazioni di uscita I/O sono abilitate.

IMPOSTAZIONE DELLA MODALITÀ DI CONTROLLO DEL FISSAGGIO (cont.)

Creazione (impostazione) di un batch

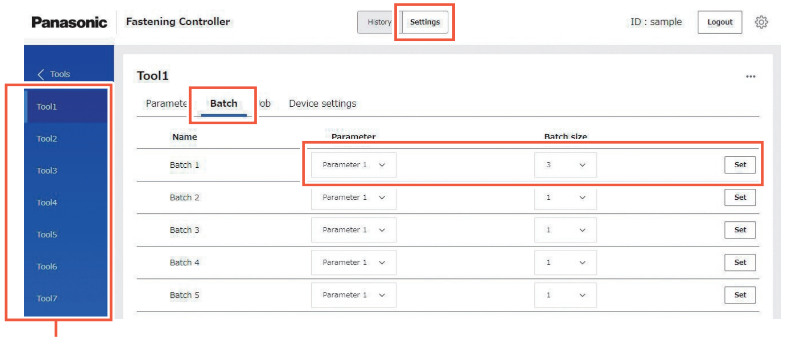
Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”. Nella schermata “Connected tool”, fare clic sul numero utensile desiderato.

Nella schermata del numero utensile, selezionare la scheda “Batch” ed effettuare le impostazioni.

Selezionare un parametro dal menu a discesa “Parameter” e impostare “Batch size” (quantità da fissare, fino a 99). Fare clic su [Set] per impostare i valori per “Repeat mode (Basic mode)”.

* Per commutare l’utensile, selezionare quello desiderato da elenco utensili.

* Fino a 5 batch possono essere registrati.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
Parameter
Batch
Job
Device settings
Set

Name	Parameter	Batch size
Batch 1	Parameter 1	3
Batch 2	Parameter 1	1
Batch 3	Parameter 1	1
Batch 4	Parameter 1	1
Batch 5	Parameter 1	1

Elenco utensili

Creazione (impostazione) di un lavoro

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”. Nella schermata “Connected tool”, fare clic sul numero utensile desiderato.

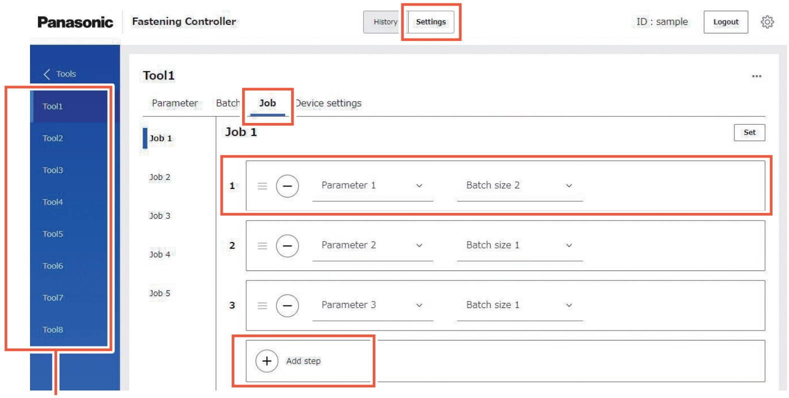
Nella schermata del numero utensile, selezionare la scheda “Job” ed effettuare le impostazioni.

Selezionare un parametro dal menu a discesa “Parameter” e impostare “Batch size” (quantità da fissare, fino a 99). Fare clic su [Set] per impostare i valori per “Repeat mode (Basic mode)”.

* Fino a 10 passaggi possono essere registrati.

* Per commutare l’utensile, selezionare quello desiderato da elenco utensili.

* Fino a 5 lavori possono essere registrati.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Job 1
Job 2
Job 3
Job 4
Job 5
Set
Add step

Job 1

1 Parameter 1 Batch size 2
2 Parameter 2 Batch size 1
3 Parameter 3 Batch size 1

Elenco utensili

Creazione (impostazione) di una sequenza

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Sequence settings”.

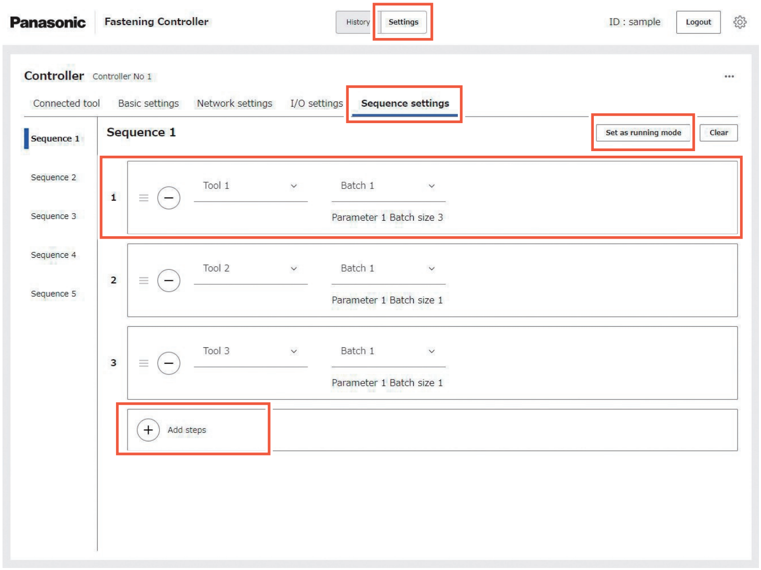
Nella schermata “Sequence settings”, selezionare un utensile dal menu a discesa “Tool” e impostare “Batch” o “Job”.

Fare clic su [Set as running mode] per impostare i valori per “Repeat mode (Sequence mode)”.

* Fino a 5 sequenze possono essere registrate.

* Fino a 10 passaggi possono essere registrati.

* Lo stesso utensile può essere utilizzato più di una volta in una sequenza.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Sequence 1
Sequence 2
Sequence 3
Sequence 4
Sequence 5
Set as running mode
Clear
Add steps

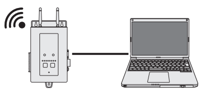
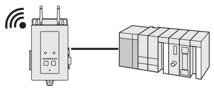
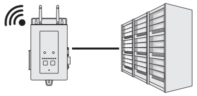
Sequence 1

1 Tool 1 Batch 1 Parameter 1 Batch size 3
2 Tool 2 Batch 1 Parameter 1 Batch size 1
3 Tool 3 Batch 1 Parameter 1 Batch size 1

CONNESSIONE A UN DISPOSITIVO ESTERNO

Tipi di dispositivi esterni supportati

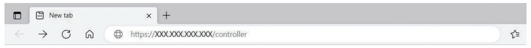
Il controller supporta i seguenti tipi di dispositivi esterni.

Funzionalità	PC per la configurazione	PLC	Sistema host del cliente
Illustrazione			
Metodo di comunicazione	Ethernet	I/O	Ethernet
Protocollo di comunicazione	http/https	— (solo segnale ON/OFF)	Protocollo aperto
Utilizzo principale	• Visualizzazione e memorizzazione della cronologia di fissaggio • Modifica delle impostazioni	• Emissione di segnali di completamento e di errore • Commutazione dell'ordine di fissaggio	• Esportazione della cronologia di fissaggio • Commutazione dell'ordine di fissaggio
Dati che possono essere esportati	• Numeri di serie degli utensili • Ora • Risultati di completamento ed errore • Valori di coppia, angoli, lunghezze tempi di fissaggio • Dati forma d'onda	• Risultati di completamento ed errore • Batch/job/sequence completo • Batch/job/sequence selezionato • Utensile attivo	• Numeri di serie degli utensili • Ora • Risultati di completamento ed errore • Valori di coppia, angoli, lunghezze tempi di fissaggio • Dati forma d'onda
Commutazione dell'ordine di fissaggio	—	• Batch/job/sequence selezionato	• Parameter/batch selezionato
Altro	Visualizzato in un browser web. Si consiglia Microsoft Edge.	8 porte ciascuno per ingresso e uscita	Per i comandi supportati, vedere "Comandi compatibili con il protocollo aperto". **Fare riferimento a P61** Le sequenze di controllo devono essere esaminate rispettivamente.

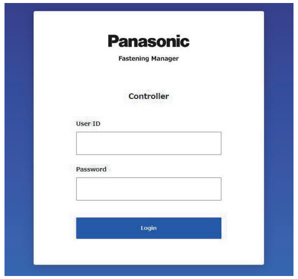
Connessione al PC per la configurazione in una posizione remota

Il PC per la configurazione con il certificato installato può collegarsi in remoto ai controller.
Si noti che viene accettato un solo accesso alla funzione di configurazione alla volta.
Per connettersi, immettere l'indirizzo IP del controller in un browser web.

Fare riferimento a P21



https://XXX.XXX.XXX.XXX/controller



CONNESSIONE A UN DISPOSITIVO ESTERNO TRAMITE I/O

Connessione tramite I/O

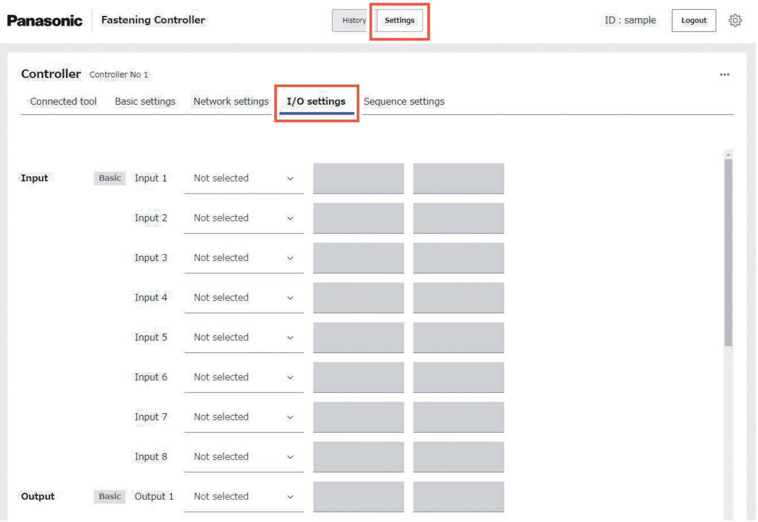
È possibile assegnare comandi supportati a 8 porte di ingresso e a 8 porte di uscita come desiderato.
Assegnarli nella schermata "I/O settings".
Di seguito sono riportati i comandi che possono essere assegnati alle porte.

Ingresso	Comando supportato
1	Batch (Utensile da 1 a 5) Job (Utensile da 1 a 5) Sequence (da 1 to 5) Batch reset (da 1 a 8) Reset Suspend tool (da 1 a 8) Suspend controller
2	
3	
4	
5	
6	
7	
8	

Uscita	Comando supportato
1	OK (Utensile da 1 a 8) NOK (Utensile da 1 a 8) Batch complete (Utensile da 1 a 5) Job complete (Utensile da 1 a 5) Sequence complete (da 1 a 5) Tool active (Utensile da 1 a 8) Batch selected (Utensile da 1 a 5) Job selected (Utensile da 1 a 5) Sequence selected (da 1 a 5)
2	
3	
4	
5	
6	
7	
8	

Impostazione di I/O

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "I/O settings".



Input Basic Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected
Input 5 Not selected
Input 6 Not selected
Input 7 Not selected
Input 8 Not selected
Output Basic Output 1 Not selected

* È possibile assegnare un comportamento o un evento non ancora registrato. (Tranne la selezione lavoro e la selezione sequenza)

Comandi assegnati alle porte di ingresso

Di seguito sono riportati i comandi che possono essere assegnati alle porte di ingresso. Quando un segnale proveniente da un dispositivo esterno viene immesso in una delle porte, viene eseguito il comando assegnato.

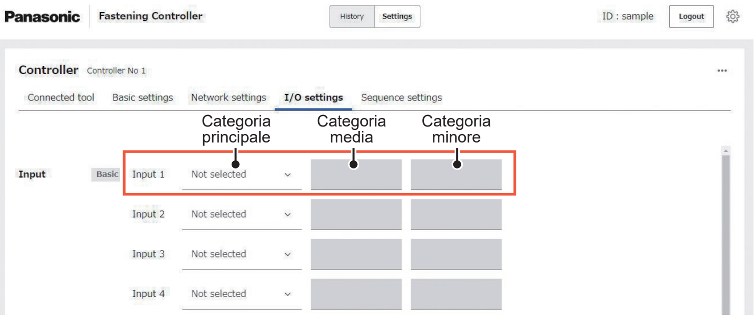
Categoria principale (Comportamento)	Categoria media (Utensile)	Categoria minore (N. batch, ecc.)
Batch	Utensile da 1 a 8	1-5
Job	Utensile da 1 a 8	1-5
Sequence	–	1-5
Suspend tool[*1]	Utensile da 1 a 8	–
Suspend controller[*1]	–	–
Batch reset	Utensile da 1 a 8	–
Reset	–	–

*1 Abilitato solo mentre il segnale in ingresso è mantenuto.

Note per quando è immesso il comando “Suspend tool” o “Suspend controller”

- Mentre “Suspend controller” è attivo, non viene accettato alcun ordine di fissaggio.
- Per il numero utensile con “Suspend tool” attivo, l’ordine di fissaggio “Batch” o “Job” è accettato.
- Per altri numeri utensile diversi da quelli con “Suspend tool” attivo, un ordine di fissaggio “Batch” o “Job” è accettato.
- Mentre “Suspend tool” è attivo, non viene accettato alcun ordine di fissaggio “Sequence”. A questo punto, il processo continua finché non raggiunge l’utensile con “Suspend tool” attivo.
- “Batch reset” e “Reset” sono trattati nello stesso modo di un ordine di fissaggio.

Dopo aver selezionato un comportamento nella categoria principale, selezionare un utensile e quindi un numero (es. un numero batch) come necessario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Categoria principale
Categoria media
Categoria minore
Input
Basic

Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected

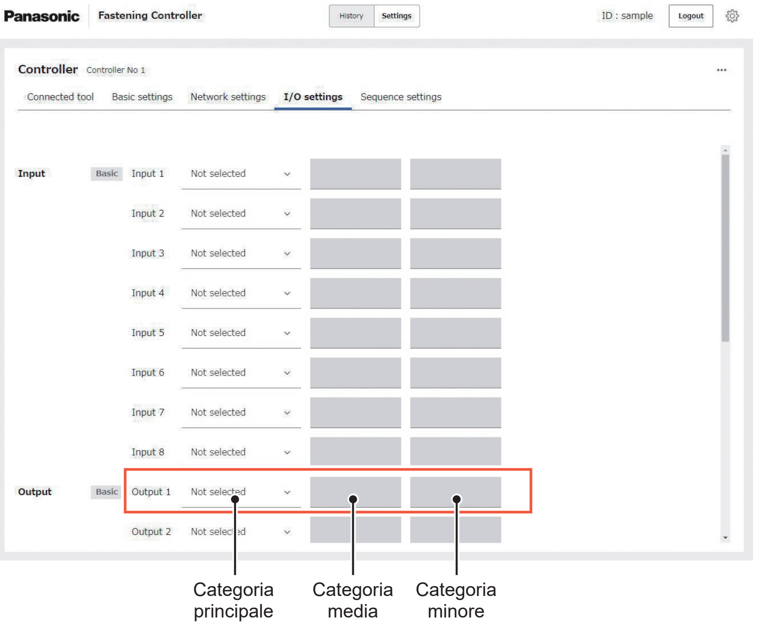
* Non viene eseguita alcuna azione se viene immesso un segnale non assegnato. (Non si verifica alcun errore)

Comandi assegnati alle porte di uscita

Di seguito sono riportati i comandi che possono essere assegnati alle porte di uscita. Quando si è verificato un evento rilevante, il controller emette un segnale dalla porta corrispondente a un dispositivo esterno come specificato dal comando assegnato.

Categoria principale (Evento)	Categoria media (Utensile)	Categoria minore (N. batch, ecc.)
OK	Utensile da 1 a 8	–
NOK	Utensile da 1 a 8	–
Batch complete	Utensile da 1 a 8	1-5
Job complete	Utensile da 1 a 8	1-5
Sequence complete	–	1-5
Tool active	Utensile da 1 a 8	–
Batch selected	Utensile da 1 a 8	1-5
Job selected	Utensile da 1 a 8	1-5
Sequence selected	–	1-5

Dopo aver selezionato un evento nella categoria principale, selezionare un utensile e quindi un numero (es. un numero batch) come necessario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Output
Basic
Categoria principale
Categoria media
Categoria minore

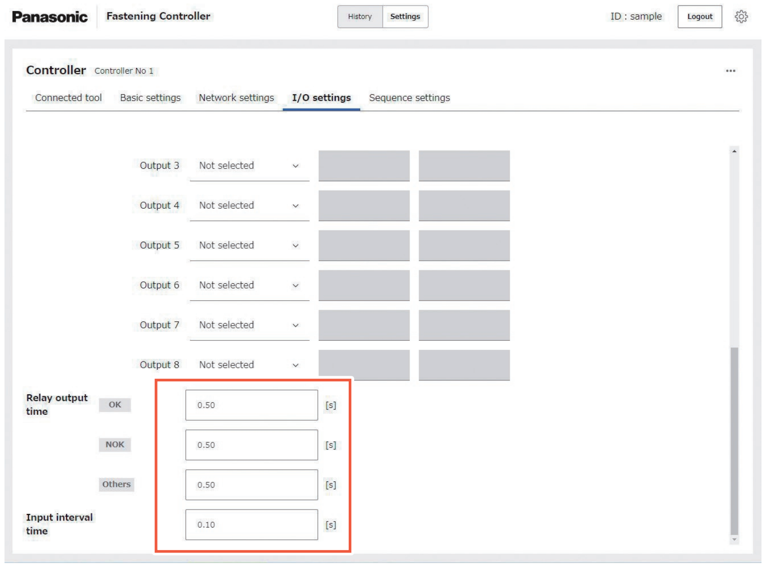
Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected
Input 5 Not selected
Input 6 Not selected
Input 7 Not selected
Input 8 Not selected
Output 1 Not selected
Output 2 Not selected

* Se il controller si spegne durante l’esecuzione di un comando di uscita, il processo non riprende dopo l’accensione del controller. (Si noti che i dati della cronologia di fissaggio vengono salvati).

CONNESSIONE A UN DISPOSITIVO ESTERNO TRAMITE I/O (cont.)

Altre impostazioni

È possibile impostare altre impostazioni relative a I/O come indicato di seguito.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Output 3 Not selected
Output 4 Not selected
Output 5 Not selected
Output 6 Not selected
Output 7 Not selected
Output 8 Not selected
Relay output time OK 0.50 [s]
NOK 0.50 [s]
Others 0.50 [s]
Input interval time 0.10 [s]

Relay output time (OK)

Selezionare la lunghezza di tempo fino all’emissione di un segnale di completamento del fissaggio tramite il relè.
[Predefinito] 0.5 s
[Campo di impostazione] da 0.01 s a 10 s

Relay output time (NOK)

Selezionare la lunghezza di tempo fino all’emissione di un segnale di errore del fissaggio tramite il relè.
[Predefinito] 0.5 s
[Campo di impostazione] da 0.01 s a 10 s

Relay output time (Others)

Selezionare la lunghezza di tempo fino all’emissione di qualsiasi altro segnale diverso dai segnali di completamento e di errore del fissaggio tramite il relè.
[Predefinito] 0.5 s
[Campo di impostazione] da 0.01 s a 10 s

Input interval time

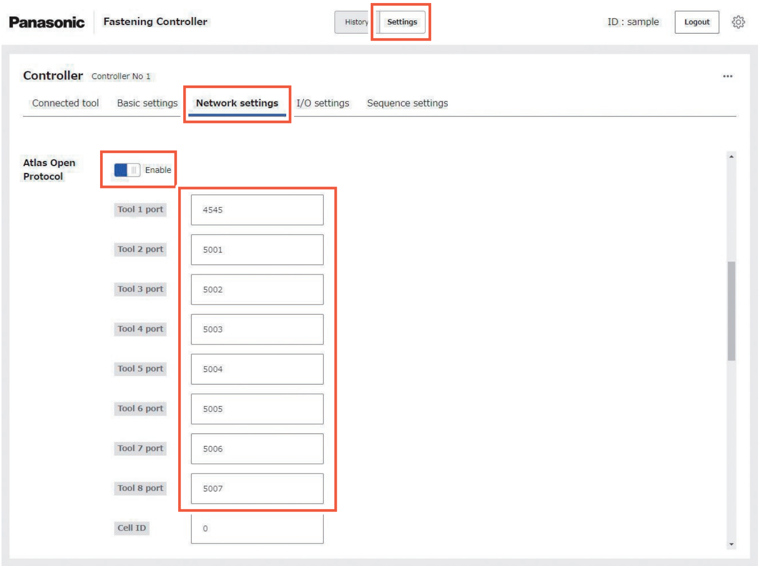
Selezionare la lunghezza di tempo in cui i segnali di ingresso successivi non vengono conteggiati (accettati).
Impostarlo per impedire un conteggio doppio causato da rumore, ecc.
[Predefinito] 0.1 s
[Campo di impostazione] da 0.01 s a 10 s

CONNESSIONE A UN DISPOSITIVO ESTERNO TRAMITE PROTOCOLLO APERTO

Connessione tramite comunicazione con protocollo aperto

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Network settings”.

Abilitare “Atlas Open Protocol”.
Impostare i numeri delle porte per gli utensili utilizzati rispettivamente.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

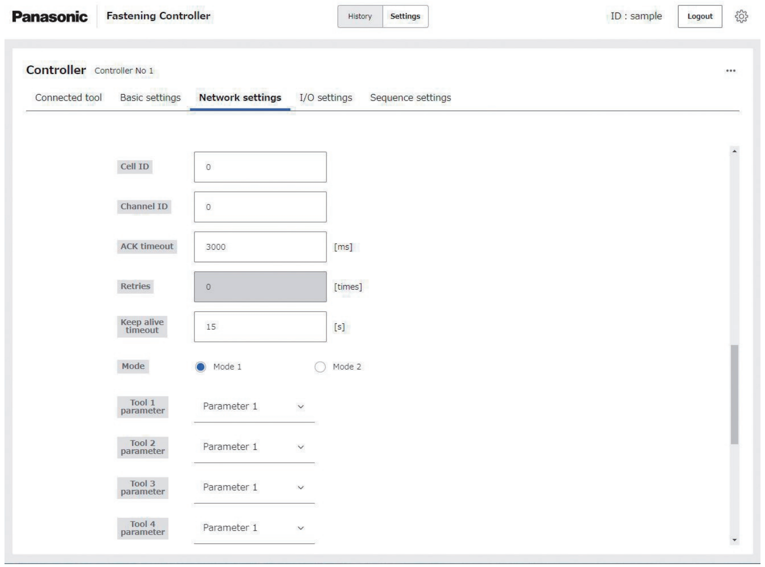
Atlas Open Protocol Enable
Tool 1 port 4545
Tool 2 port 5001
Tool 3 port 5002
Tool 4 port 5003
Tool 5 port 5004
Tool 6 port 5005
Tool 7 port 5006
Tool 8 port 5007
Cell ID 0

Tool port

Assegnare un numero di porta per la comunicazione con protocollo aperto a ciascun utensile.
[Predefinito] Utensile 1 - 4545,
Utensile da 2 a 8 - da 5001 a 5007
[Campo di impostazione] Utensile da 1 a 8 - da 1024 a 49151

Altre impostazioni

Impostare altre voci come necessario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID: 0
Channel ID: 0
ACK timeout: 3000 [ms]
Retries: 0 [times]
Keep alive timeout: 15 [s]
Mode: ● Mode 1 ○ Mode 2
Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1

Cell ID

Impostare l’ID cella.
[Predefinito] 0
[Campo di impostazione] da 0 a 9999

Channel ID

Impostare l’ID canale.
[Predefinito] 0
[Campo di impostazione] da 0 a 99

ACK timeout

Impostare la lunghezza di tempo di attesa per una risposta a un messaggio di richiesta dal controller.
[Predefinito] 3000 ms
[Campo di impostazione] da 100 ms a 30000 ms

Retries

Impostare il numero di volte per ripetere l’invio di un messaggio di richiesta dal controller.
[Predefinito] 0 times
[Campo di impostazione] Non selezionabile (Fisso)

Keep alive timeout

Impostare la lunghezza di tempo per determinare il verificarsi di una disconnessione dopo l’ultima comunicazione con un sistema host.
[Predefinito] 15 s
[Campo di impostazione] da 1 s a 60 s

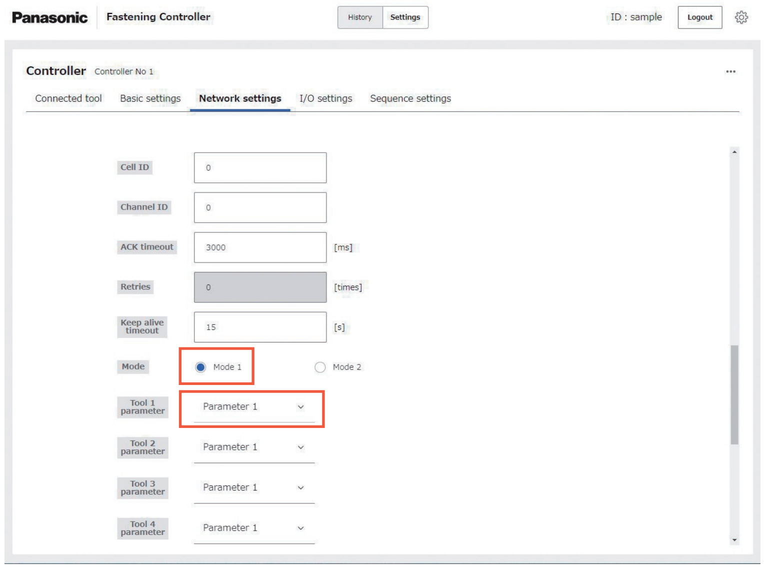
Mode

Impostare la modalità di esecuzione.
Mode 1: fissaggio incondizionato con parametri preregistrati
Mode 2: fissaggio con parametri ordinati da un sistema host
[Predefinito] Mode 1
[Campo di impostazione] Mode 1 / Mode 2

Assegnazione dei parametri di fissaggio (Mode 1)

“Mode 1” (senza parametri ordinati) richiede parametri di fissaggio preregistrati sugli utensili.

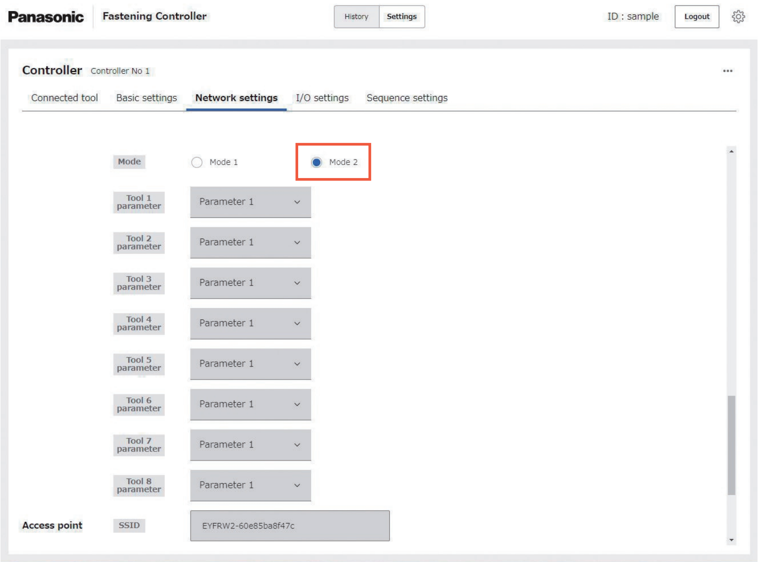
Selezionare un parametro dal menu a discesa come segue.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID: 0
Channel ID: 0
ACK timeout: 3000 [ms]
Retries: 0 [times]
Keep alive timeout: 15 [s]
Mode: ● Mode 1 ○ Mode 2
Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1

Assegnazione dei parametri di fissaggio (Mode 2)

Il fissaggio può essere ordinato con un comando MID 0018 da un dispositivo esterno.}
È possibile specificare “Parameter” o “Batch” in un ordine di fissaggio.



Mode ○ Mode 1 ● Mode 2
Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1
Tool 5 parameter: Parameter 1
Tool 6 parameter: Parameter 1
Tool 7 parameter: Parameter 1
Tool 8 parameter: Parameter 1
Access point SSID: EYFRW2-60e85ba8f47c

■ Per specificare “Parameter” in un ordine di fissaggio

Inserire “0” nella cifra delle centinaia di ID.
Le cifre delle decine e quelle delle unità indicano un numero di parametro.

Esempio: ID del parametro 1: 001
ID del parametro 5: 005

■ Per specificare “Batch” in un ordine di fissaggio

Inserire “1” nella cifra delle centinaia di ID.
Le cifre delle decine e quelle delle unità indicano un numero di batch.

Esempio: ID del batch 1: 101
ID del batch 5: 105

* “Job” e “Sequence” non sono supportati.

■ Comandi compatibili con il protocollo aperto

Il controller supporta i seguenti comandi.
Per i dettagli dei comandi, vedere le specifiche del protocollo aperto.

MID 0001 Application communication start

Revisione 1 è supportata.
[Contenuto] Avvio comunicazione

MID 0002 Application communication start acknowledge

Revisione 1 è supportata.
[Contenuto] Riconoscimento di comunicazione

MID 0004 Application command error

Revisione 1 è supportata.
[Contenuto] Errore comando

MID 0005 Application command accepted

Revisione 1 è supportata.
[Contenuto] Accettazione comando

MID 0018 Select parameter set, Dynamic Job included

Revisione 1 è supportata.
Per informazioni su come assegnare, vedere “Assegnazione dei parametri di fissaggio (Mode 2)”. **Fare riferimento a P60**
[Contenuto] Ordine impostazione parametro

MID 0042 Disable tool

Revisione 1 è supportata.
[Contenuto] Utensile disabilitato

MID 0043 Enable tool

Revisione 1 è supportata.
[Contenuto] Utensile abilitato

MID 0050 Vehicle ID number download request

Revisione 1 è supportata.
[Contenuto] Richiesta di acquisizione ID veicolo

MID 0060 Last tightening result data subscribe
Le revisioni 1 e 2 sono supportate. [Contenuto] Registrazione dei dati del risultato di fissaggio finale

MID 0061 Last tightening result data
Le revisioni 1 e 2 sono supportate. [Contenuto] Caricamento dei risultati di fissaggio

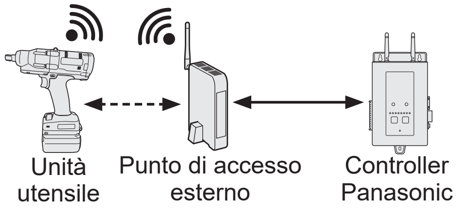
MID 0062 Last tightening result data acknowledge
Le revisioni 1 e 2 sono supportate. [Contenuto] Riconoscimento caricamento dei risultati di fissaggio

MID 9999 Keep alive message
Revisione 1 è supportata. [Contenuto] Controllo della disponibilità

CONNESSIONE TRAMITE UN PUNTO DI ACCESSO ESTERNO

Configurazione

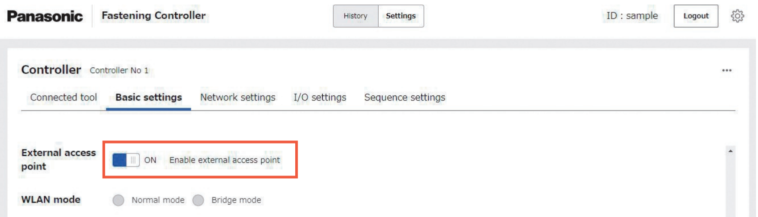
Il controller può collegarsi a utensili tramite comunicazione wireless utilizzando un punto di accesso esterno al posto del punto di accesso incorporato.
Il controller può controllare gli utensili ovunque sia installato.
Collegare il punto di accesso e il controller alla LAN cablata.
* La copertura wireless e le prestazioni cambiano a seconda del punto di accesso utilizzato.

Connessione	Metodo di comunicazione	Nota
 Unità utensile Punto di accesso esterno Controller Panasonic	Ethernet	• Nella modalità di selezione, selezionare il punto di accesso interno o il punto di accesso esterno. • Numero massimo di utensili collegati: 8 * Sia per il punto di accesso interno sia per il punto di accesso esterno

Procedura di impostazione

1 **Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto, selezionare la scheda "Basic settings" e impostare "External access point" su "ON".**

* "WLAN mode" è disabilitato quando "External access point" è abilitato.

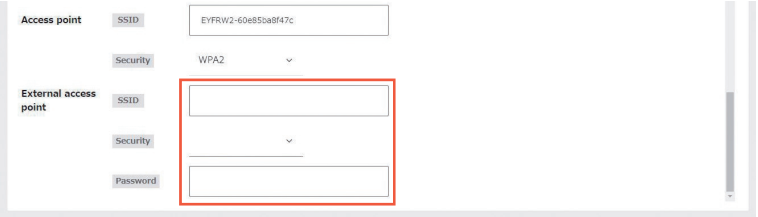


External access point: ON Enable external access point

WLAN mode: ○ Normal mode ○ Bridge mode

2 **Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "Network settings". In "External access point", impostare "SSID", "Security" e "Password".**

* È possibile registrare solo un SSID nel controller. (Non è possibile registrare SSID diversi per utensili diversi)
* Vedere le Istruzioni per l'uso del punto di accesso esterno.
* Eseguire questa impostazione prima di avviare la registrazione dell'associazione con gli utensili.
* Impostare l'indirizzo IP dell'utensile prima di avviare la registrazione dell'associazione.



Access point
SSID: EYFRW2-60e85ba8f47c
Security: WPA2

External access point
SSID:
Security:
Password:

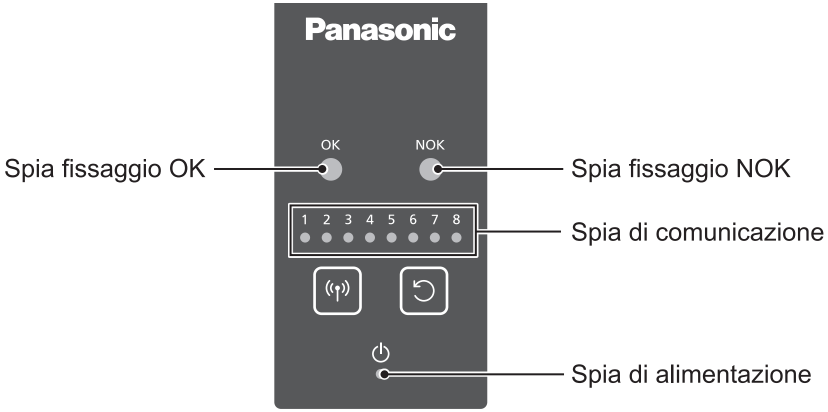
SPIE DI INDICAZIONE E CICALINO

Spie di indicazione e cicalino

Le spie di indicazione e il cicalino indicano lo stato del controller.

⚠ ATTENZIONE

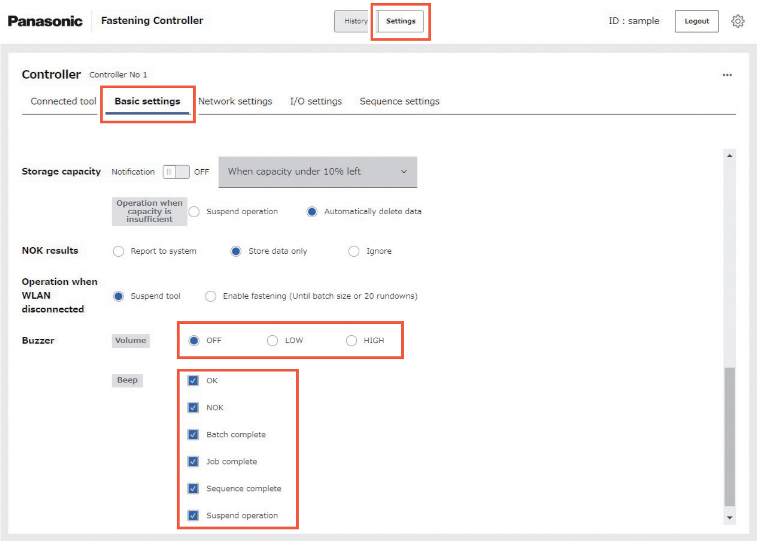
Non spegnere l'interruttore di alimentazione mentre la spia sta lampeggiando per segnalare l'avvio.
Potrebbe essere necessaria l'inizializzazione.


Panasonic
OK
NOK
1 2 3 4 5 6 7 8
Spia fissaggio OK
Spia fissaggio NOK
Spia di comunicazione
Spia di alimentazione

Stato	Spia di indicazione	Cicalino
Accensione	Spia di alimentazione (gialla) Rimane accesa	–
Un utensile da associare selezionato	Spia di comunicazione (blu) Lampeggia lentamente	–
Associazione stabilita	Spia di comunicazione (blu) Lampeggia rapidamente	–
Associazione completata	Spia di comunicazione (blu) Rimane accesa	Un breve segnale acustico ■
Accoppiamento non stabilito	Spia di comunicazione (blu) Lampeggia molto lentamente	–
Associazione disconnessa	Spia di comunicazione (blu) Spenta	–
Completamento fissaggio	Spia OK (verde) Rimane accesa	Un breve segnale acustico ■
Errore di fissaggio	Spia NOK (rossa) Rimane accesa	Un lungo segnale acustico ▬
Completamento Batch/job	Spia OK (verde) Lampeggia due volte	Due brevi segnali acustici ■ ■
Sequenza completa	Spia OK (green) Lampeggia tre volte	Tre brevi segnali acustici ■ ■ ■
Errore	Spia di alimentazione (gialla) Lampeggia	Due lunghi segnali acustici ▬ ▬

Impostazione del cicalino

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "Basic settings".
In "Buzzer", impostare "Volume" e "Beep".


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Storage capacity — Notification: OFF — When capacity under 10% left

Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data

NOK results: ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected: ● Suspend tool ○ Enable fastening (Until batch size or 20 rundowns)

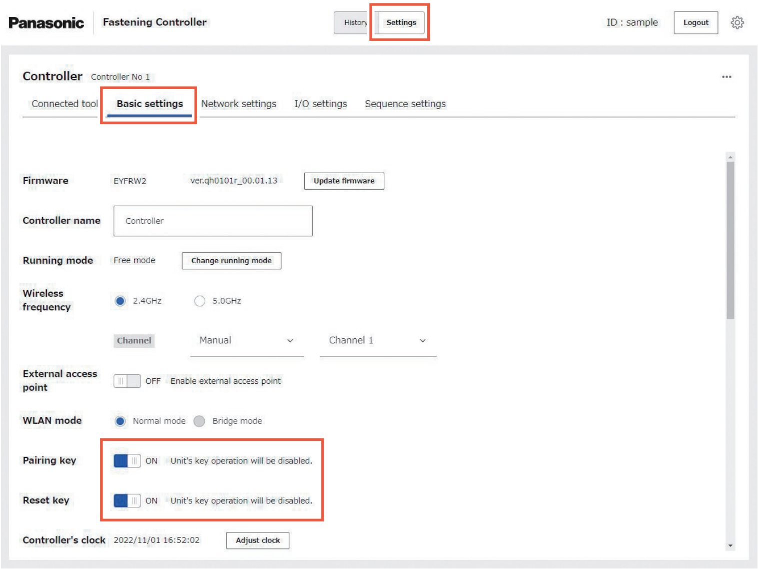
Buzzer — Volume: ● OFF ○ LOW ○ HIGH

Beep:
- ☑ OK
- ☑ NOK
- ☑ Batch complete
- ☑ Job complete
- ☑ Sequence complete
- ☑ Suspend operation

Voce	Descrizione
Volume	3 livelli (OFF / LOW / HIGH) (LOW: 75 dB, HIGH: 85 dB)
Beep	Selezionato sul PC per la configurazione (OK / NOK / Batch complete / Job complete / Sequence complete / Suspend operation)

IMPOSTAZIONE DEI TASTI OPERATIVI

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Basic settings”.
In “Pairing key” e “Reset key”, è possibile disabilitare il tasto di associazione e il tasto di ripristino sul pannello di controllo.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Channel
Adjust clock

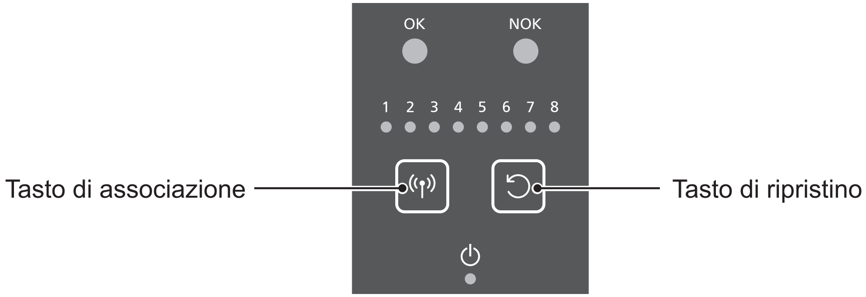
Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode
Wireless frequency ● 2.4GHz ○ 5.0GHz
Channel Manual Channel 1
External access point OFF Enable external access point
WLAN mode ● Normal mode ○ Bridge mode
Pairing key ON Unit's key operation will be disabled.
Reset key ON Unit's key operation will be disabled.
Controller's clock 2022/11/01 16:52:02

Pairing key

Abilitare o disabilitare il tasto di associazione sul pannello di controllo.
[Predefinito] ON
[Campo di impostazione] ON (abilitato)/OFF (disabilitato)

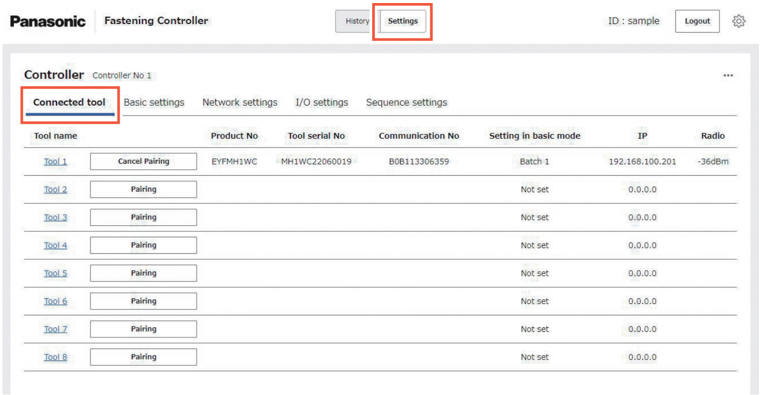
Reset key

Abilitare o disabilitare il tasto di ripristino sul pannello di controllo.
[Predefinito] ON
[Campo di impostazione] ON (abilitato)/OFF (disabilitato)


OK
NOK
1 2 3 4 5 6 7 8
Tasto di associazione
Tasto di ripristino

CONTROLLO DELLE INFORMAZIONI DEGLI UTENSILI COLLEGATI

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Connected tool”.
È possibile visualizzare le informazioni e lo stato degli utensili connessi al controller.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Di seguito sono riportate le voci visualizzate.

Tool name

Viene visualizzato il numero utensile registrato (da 1 a 8).

Tool serial No

È possibile impostare e visualizzare l’identificazione dell’unità utensile.
Predefinito: ID modello a 5 cifre + numero di serie a 8 cifre (anno di produzione a 2 cifre + mese a 2 cifre + lotto di produzione a 4 cifre)

Product No

Viene visualizzato il numero prodotto dell’utensile.

Communication No

Viene visualizzata l’identificazione dell’unità (indirizzo MAC) della parte di comunicazione dell’utensile.

Setting in basic mode

Un comportamento quando Running mode è impostato su “Repeat mode (Basic mode)” viene visualizzato.

IP

Viene visualizzato l’indirizzo IP dell’utensile.

Radio

Viene visualizzata la potenza di un segnale radio (RSSI) ricevuto dall’utensile.
* Viene visualizzata la potenza dell’ultima comunicazione.
* Non può essere misurata e “0dBm” appare quando viene usato un punto di accesso esterno.

MONITOR DI LAVORO

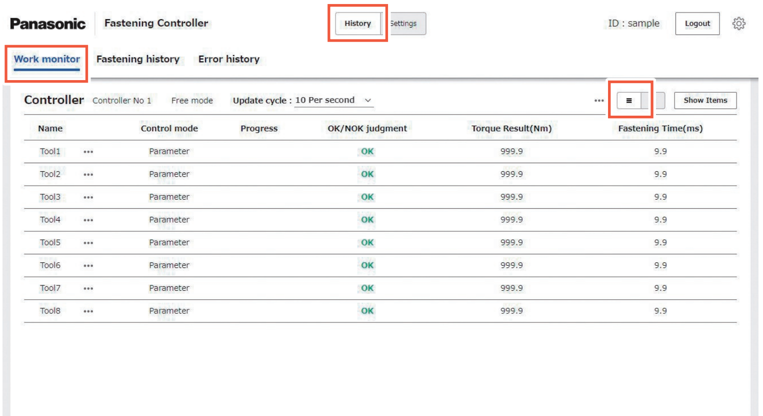
Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Work monitor”.
Vengono visualizzati i registri della cronologia di fissaggio più recenti dall’utensile. È possibile utilizzarli per lavorare facendo riferimento ai risultati del lavoro.

* Più di un PC per la configurazione può visualizzarli contemporaneamente. (Fino a 8 accessi. Sono accettati più accessi dallo stesso account).
* Per accedere con più di un account, si consiglia di utilizzare diversi PC.
* Per utilizzare più di un account sullo stesso PC, si consiglia di utilizzare browser web diversi.
* Si noti che viene accettato un solo accesso alla funzione di configurazione alla volta.

Commutazione del formato di visualizzazione

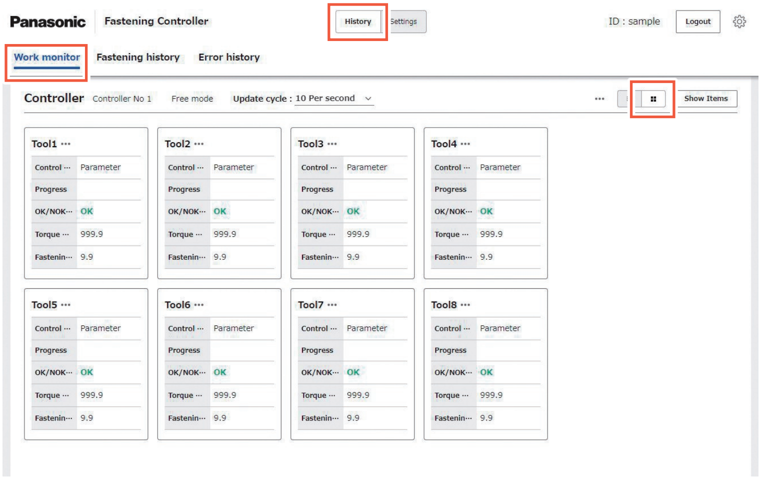
È possibile selezionare tra “Vista elenco” e “Vista griglia”.
Utilizzare l’icona di visualizzazione in alto a destra dello schermo.

■Vista elenco


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	999.9	9.9
Tool2	•••	Parameter		OK	999.9	9.9
Tool3	•••	Parameter		OK	999.9	9.9
Tool4	•••	Parameter		OK	999.9	9.9
Tool5	•••	Parameter		OK	999.9	9.9
Tool6	•••	Parameter		OK	999.9	9.9
Tool7	•••	Parameter		OK	999.9	9.9
Tool8	•••	Parameter		OK	999.9	9.9

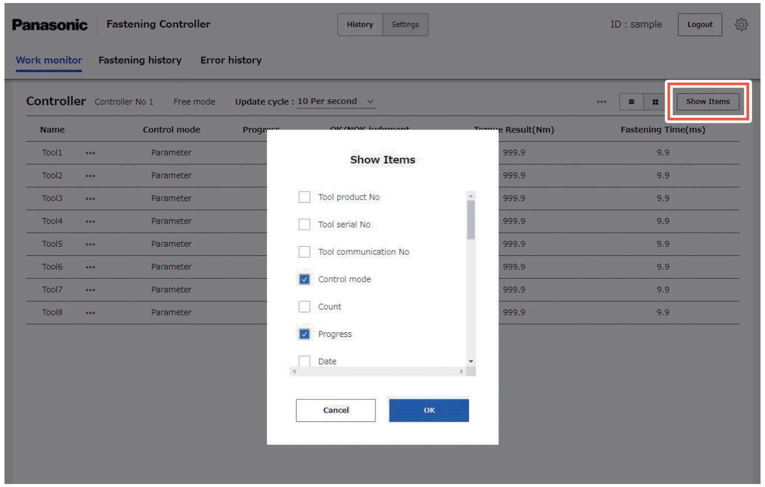
■Vista griglia


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

	Tool1 ···	Tool2 ···	Tool3 ···	Tool4 ···	Tool5 ···	Tool6 ···	Tool7 ···	Tool8 ···
Control ···	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter
Progress								
OK/NOK···	OK	OK	OK	OK	OK	OK	OK	OK
Torque ···	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9
Fastenin···	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

Selezione delle voci da visualizzare

Selezionare le voci da visualizzare utilizzando “Show Items”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Torque Result(Nm)
Fastening Time(ms)
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
999.9
9.9
Cancel
OK

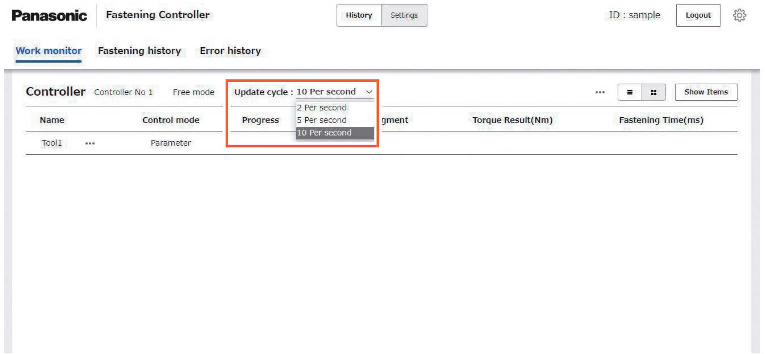
Show Items

☐ Tool product No
☐ Tool serial No
☐ Tool communication No
☑ Control mode
☐ Count
☑ Progress
☐ Date

* In “Vista elenco”, è possibile scorrere verso il basso e selezionare molte voci da visualizzare.
* In “Vista griglia” è possibile visualizzare fino a 5 elementi.

Selezione del ciclo di aggiornamento del display

È possibile impostare l’aggiornamento automatico del display.
Selezionare il ciclo di aggiornamento da “2 Per second”, “5 Per second” e “10 Per second” come segue.

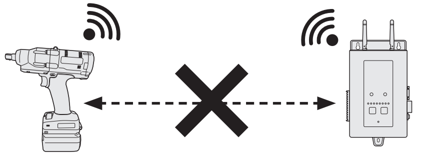

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Show Items
Name
Control mode
Progress
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter

Update cycle : 10 Per second
2 Per second
5 Per second
10 Per second

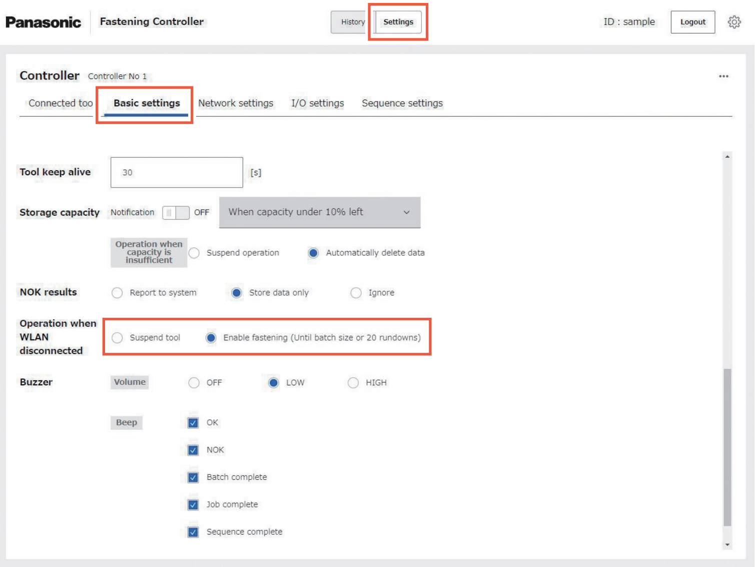
* Se un grande numero di utensili o PC per la configurazione è collegato, si consiglia il ciclo di aggiornamento di “10 Per second”. (Potrebbe essere necessario del tempo per elaborare i dati).

COMPORTAMENTO DEGLI UTENSILI CON COMUNICAZIONE WIRELESS DISCONNESSA

È possibile continuare il fissaggio con gli stessi parametri in caso di interruzione temporanea della comunicazione wireless tra un utensile e il controller.



Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda “Basic settings”.
Se si imposta “Operation when WLAN disconnected” su “Suspend tool”, il fissaggio in corso viene completato dopo l’interruzione, ma non vengono eseguiti altri fissaggi.
Se si imposta “Enable fastening”, non viene effettuato alcun ulteriore fissaggio dopo che la quantità fissata ha raggiunto il limite superiore.



Panasonic Fastening Controller — History | Settings — ID : sample — Logout

Controller Controller No 1

Connected too | **Basic settings** | Network settings | I/O settings | Sequence settings

Tool keep alive 30 [s]

Storage capacity Notification OFF — When capacity under 10% left
Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data

NOK results ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected ○ Suspend tool ● Enable fastening (Until batch size or 20 rundowns)

Buzzer Volume: ○ OFF ● LOW ○ HIGH
Beep:
☑ OK
☑ NOK
☑ Batch complete
☑ Job complete
☑ Sequence complete

Con “Enable fastening”, le quantità del limite superiore in base alla modalità sono le seguenti.

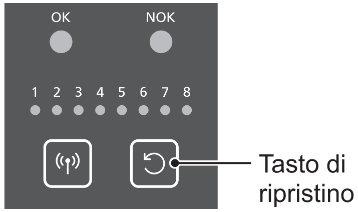
Modalità		Comportamento
Free mode		Continua il fissaggio fino a 20 viti
Repeat mode	Basic mode	Continua il fissaggio fino alla fine del batch o fino a 20 viti
	Sequence mode	Il fissaggio continua fino alla fine del batch o fino a 20 viti * Utensili diversi da quelli interessati continuano a funzionare normalmente.
External control mode		Continua il fissaggio fino alla fine del batch o fino a 20 viti

RIPRISTINO DEL CONTEGGIO DURANTE IL FUNZIONAMENTO

Per modificare le impostazioni, arrestare il controllo del fissaggio tramite il controller se è in corso. Una finestra di dialogo di conferma appare quando si applica la modifica.
È possibile ripristinare le quantità contate con “Utilizzo del tasto sull’unità” o “Impostazione nella schermata di impostazione”.
* Questo non si applica a “Free mode”.

Utilizzo del tasto sull’unità

Tenere premuto il tasto di ripristino sul controller per almeno 3 secondi.
* Le quantità di tutti gli utensili attivi vengono ripristinate.

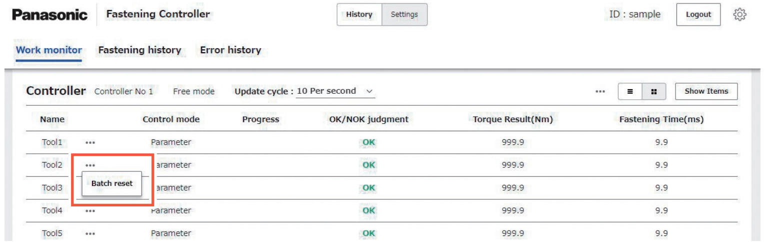


Impostazione nella schermata di impostazione

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Work monitor”.

■Per ripristinare le quantità in base all’utensile

Nella schermata “Work monitor”, fare clic su ··· (tasto opzione utensile) e quindi su [Batch reset] del numero utensile desiderato.



Panasonic Fastening Controller — History | Settings — ID : sample — Logout

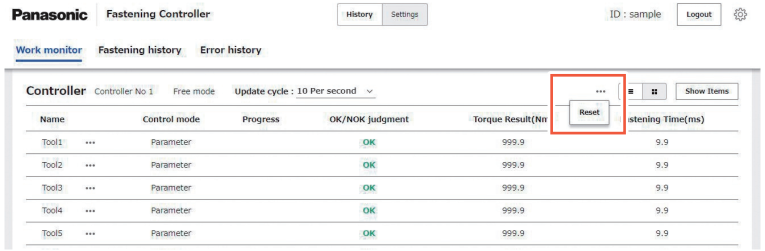
Work monitor | Fastening history | Error history

Controller Controller No 1 — Free mode — Update cycle : 10 Per second — ··· — Show Items

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	arameter		OK	999.9	9.9
Tool3	Batch reset	arameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

■Per ripristinare le quantità di tutti gli utensili collettivamente

Nella schermata “Work monitor”, fare clic su ··· (tasto opzione controller) e quindi su [Reset] in alto a destra.



Panasonic Fastening Controller — History | Settings — ID : sample — Logout

Work monitor | Fastening history | Error history

Controller Controller No 1 — Free mode — Update cycle : 10 Per second — ··· Reset — Show Items

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	Parameter		OK	999.9	9.9
Tool3	···	Parameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

* In Sequence mode, le quantità vengono ripristinate fino al primo utensile.

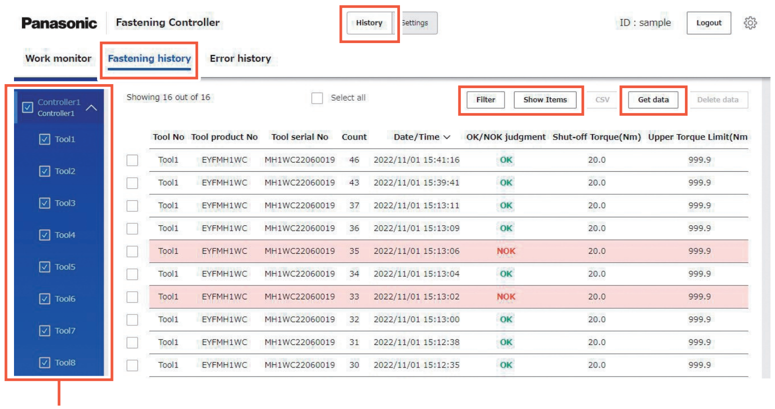
CONTROLLO DEI DATI DELLA CRONOLOGIA DI FISSAGGIO

Visualizzazione dei dati della cronologia di fissaggio

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Fastening history”.
È possibile visualizzare i dati della cronologia di fissaggio inviati dagli utensili al controller.

Per visualizzare i dati, selezionare il controller e gli utensili desiderati da elenco utensili a sinistra e fare clic su [Get data] in alto a destra.
I registri della cronologia di fissaggio vengono visualizzati dal più recente al meno recente.

* Per il contenuto delle voci della cronologia di fissaggio, vedere le Istruzioni per l’uso degli utensili.

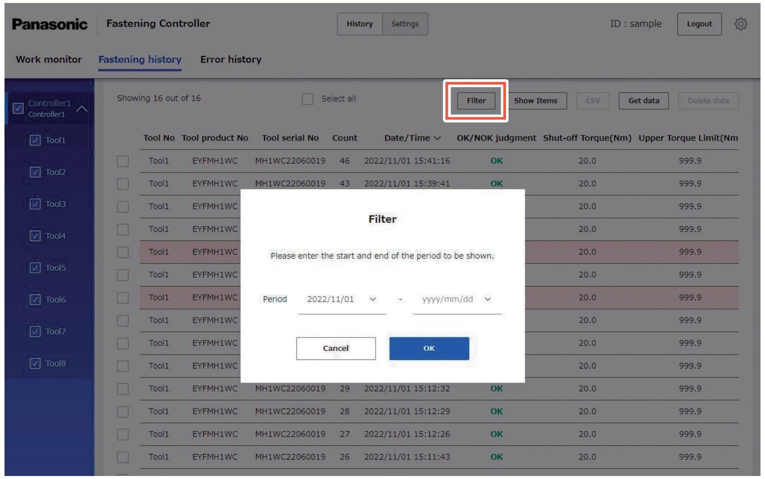

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Elenco utensili

Estrazione dei registri della cronologia di fissaggio per periodo di tempo

Fare clic su [Filter] e specificare il periodo di tempo per restringere la visualizzazione dei registri della cronologia di fissaggio.

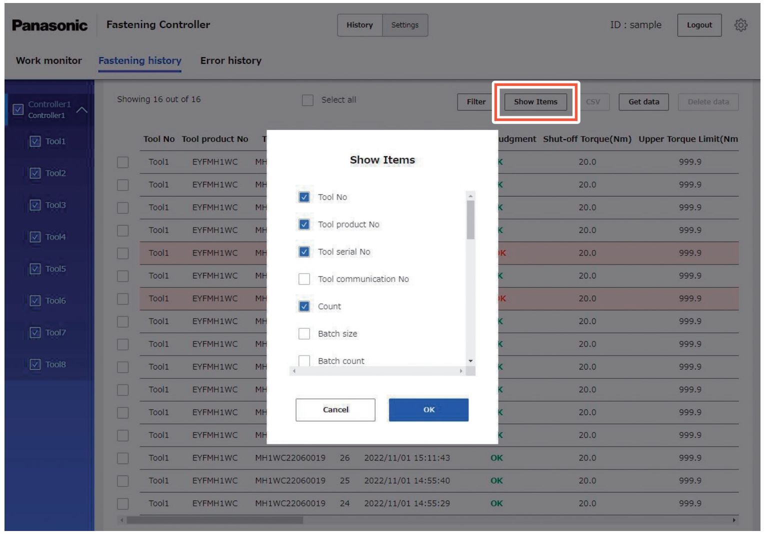

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Filter
Cancel
OK

Please enter the start and end of the period to be shown.

Period 2022/11/01 - yyyy/mm/dd

Impostazione delle voci da visualizzare

Per modificare le voci visualizzate, fare clic su [Show Items] e selezionare le voci desiderate.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Show Items
Cancel
OK

☑ Tool No
☑ Tool product No
☑ Tool serial No
☐ Tool communication No
☑ Count
☐ Batch size
☐ Batch count

Capacità per i dati della cronologia di fissaggio

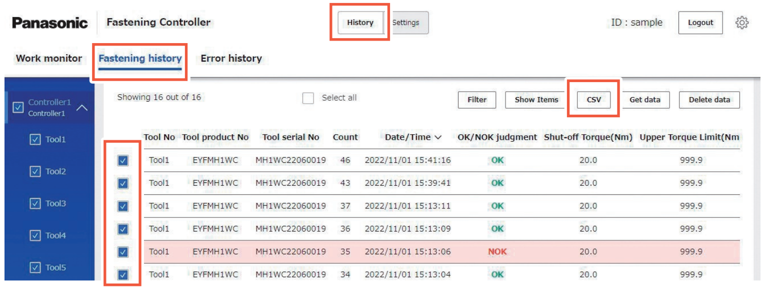
Il controller è in grado di memorizzare un massimo di circa 200,000 registri di cronologia di fissaggio (compresi i dati della forma d’onda).
Interrompe il funzionamento o elimina automaticamente i registri (mediante sovrascrittura) se riceve più registri.
Si consiglia di esportare periodicamente i registri in formato CSV come necessario, facendo riferimento alla guida di seguito.

Tempo stimato per raggiungere la capacità di memoria piena

	Quantità per giorno per utensile		
Numero di utensili	**1,000**	**3,000**	**5,000**
2	Circa 100 giorni	Circa 33 giorni	Circa 20 giorni
4	Circa 50 giorni	Circa 16 giorni	Circa 10 giorni
8	Circa 25 giorni	Circa 8 giorni	Circa 5 giorni

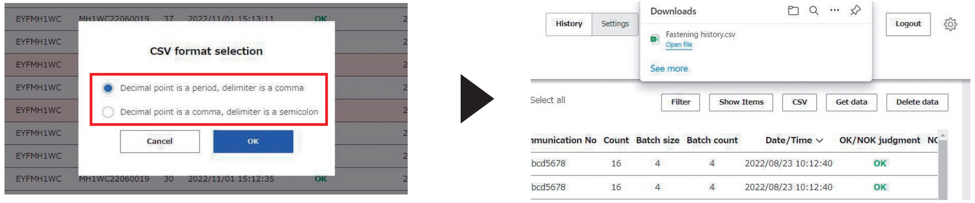
Esportazione dei dati della cronologia di fissaggio nel formato CSV

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Fastening history”.
Selezionare i registri desiderati e fare clic su [CSV].
I registri della cronologia di fissaggio sono esportati nel formato CSV.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9

È possibile selezionare tra “Decimal point is a period, delimiter is a comma” e “Decimal point is a comma, delimiter is a semicolon”.


Cancel
OK
History
Settings
Logout
Select all
Filter
Show Items
CSV
Get data
Delete data

CSV format selection

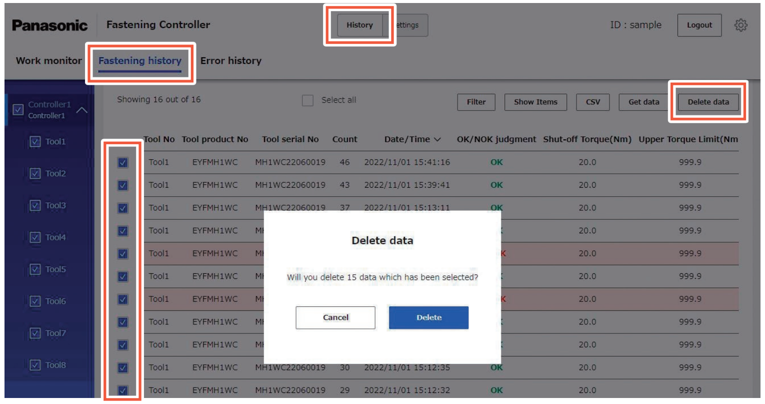
● Decimal point is a period, delimiter is a comma
○ Decimal point is a comma, delimiter is a semicolon

Downloads
Fastening history.csv
Open file
See more

munication No	Count	Batch size	Batch count	Date/Time	OK/NOK judgment	N
bcd5678	16	4	4	2022/08/23 10:12:40	OK	
bcd5678	16	4	4	2022/08/23 10:12:40	OK	

Eliminazione dei dati della cronologia di fissaggio

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Fastening history”.
Selezionare i registri desiderati e fare clic su [Delete data].
I registri di cronologia di fissaggio vengono eliminati.


Panasonic
Fastening Controller
History
ettings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data
Cancel
Delete

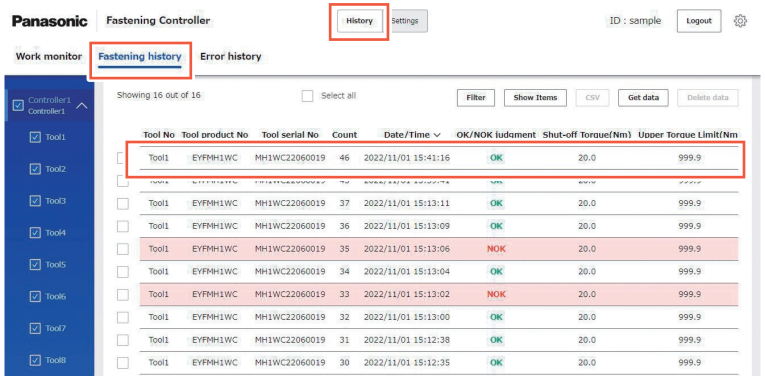
Delete data

Will you delete 15 data which has been selected?

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	29	2022/11/01 15:12:32	OK	20.0	999.9

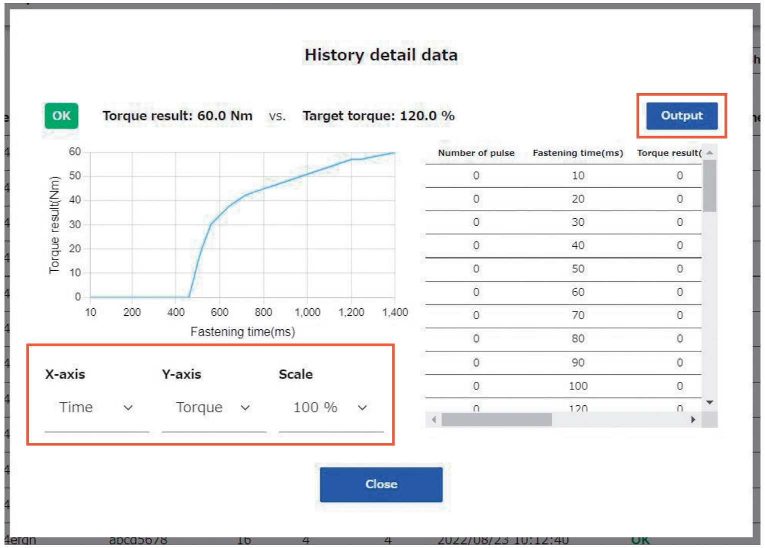
Visualizzazione dei dati della forma d’onda

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Fastening history”.
Se si à abilitato il salvataggio dei dati della forma d’onda, è possibile fare doppio clic sulla riga del registro della cronologia di fissaggio desiderato per visualizzare una finestra popup dei dati della forma d’onda.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

È possibile regolare il display selezionando “X-axis”, “Y-axis” e “Scale”.
Facendo clic su [Output] si esportano i dati nel formato CSV.


Output
60
50
40
30
20
10
0
Torque result(Nm)
10
200
400
600
800
1,000
1,200
1,400
Fastening time(ms)
Close

History detail data

OK Torque result: 60.0 Nm vs. Target torque: 120.0 %

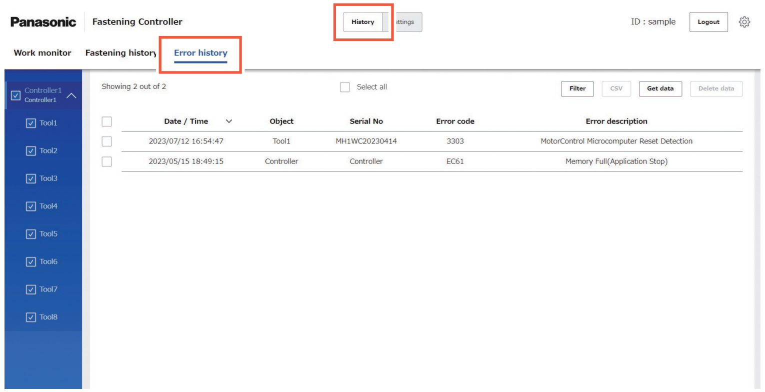
X-axis
Time
Y-axis
Torque
Scale
100 %

Number of pulse	Fastening time(ms)	Torque result(
0	10	0
0	20	0
0	30	0
0	40	0
0	50	0
0	60	0
0	70	0
0	80	0
0	90	0
0	100	0
0	120	0

* Impostare “Graph sending timing” in “Device settings” su “After every fastening”.

Visualizzazione della cronologia errori

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [History] in alto e selezionare la scheda “Error history”.
Viene visualizzata la cronologia degli errori che si sono verificati.


Panasonic
Fastening Controller
History
ttings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Select all
Filter
CSV
Get data
Delete data

Showing 2 out of 2

☐	Date / Time	Object	Serial No	Error code	Error description
☐	2023/07/12 16:54:47	Tool1	MH1WC20230414	3303	MotorControl Microcomputer Reset Detection
☐	2023/05/15 18:49:15	Controller	Controller	EC61	Memory Full(Application Stop)

Di seguito sono riportate le voci visualizzate.
* Per il contenuto dell’errore, vedere “CODICE DI ERRORE”. **Fare riferimento a P90**

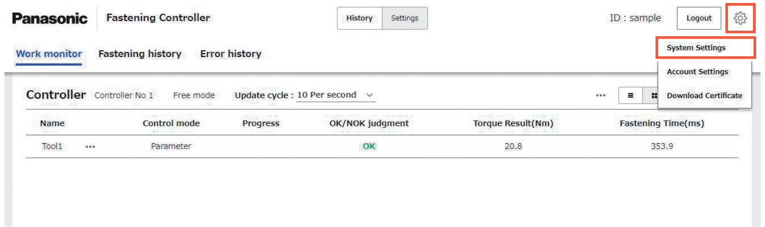
Date / Time
Vengono visualizzate la data e l’ora in cui si è verificato l’errore.
Object
Viene visualizzato il dispositivo (il controller o uno qualsiasi di Utensile da 1 a 8) che causa un errore.
Serial No
Viene visualizzato il numero di serie del dispositivo (controller o uno qualsiasi degli utensili da 1 a 8) che causa un errore.
Error code
Viene visualizzato un codice dell’errore che si è verificato.
Error description
Viene visualizzato il contenuto di un errore che si è verificato.

IMPOSTAZIONI DI SISTEMA

Modifica della lingua

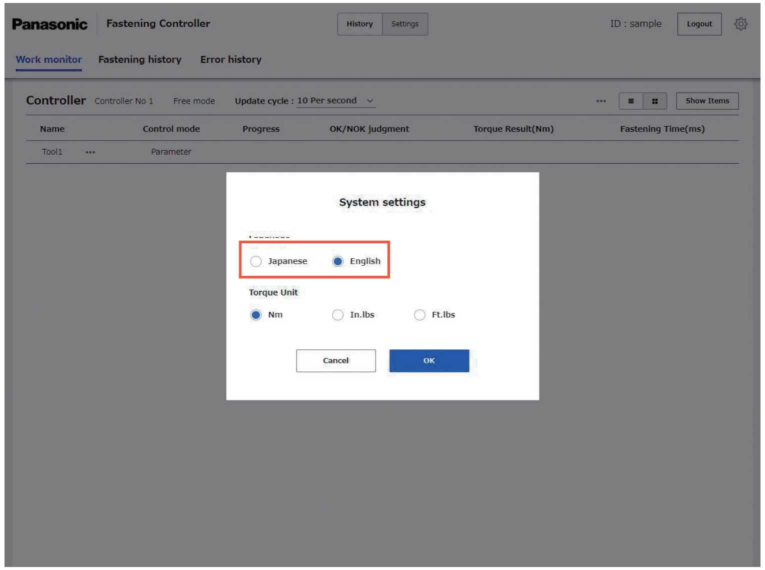
È possibile selezionare “Japanese” o “English”.

1 **Nella pagina superiore (la pagina iniziale della schermata delle impostazioni), fare clic sul tasto delle opzioni in alto a destra e selezionare “System Settings”.**
Viene visualizzata la schermata “System settings”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	20.8	353.9

2 **Selezionare la lingua nella schermata “System settings”.**
È possibile selezionare “Japanese” o “English”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

○ Japanese ● English

Torque Unit

● Nm ○ In.lbs ○ Ft.lbs

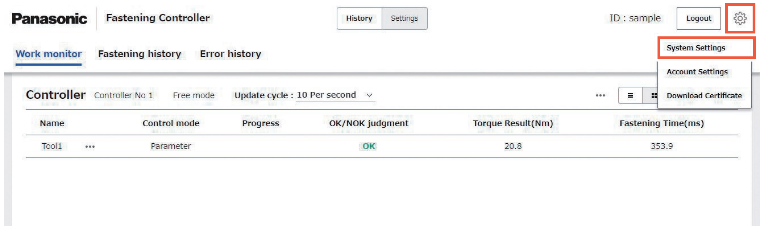
IMPOSTAZIONI DI SISTEMA (cont.)

Modifica dell’unità di coppia da visualizzare

È possibile selezionare “Nm”, “In.lbs” o “Ft.lbs”.

1 **Nella pagina superiore (la pagina iniziale della schermata delle impostazioni), fare clic sul tasto delle opzioni in alto a destra e selezionare “System Settings”.**

Viene visualizzata la schermata “System settings”.

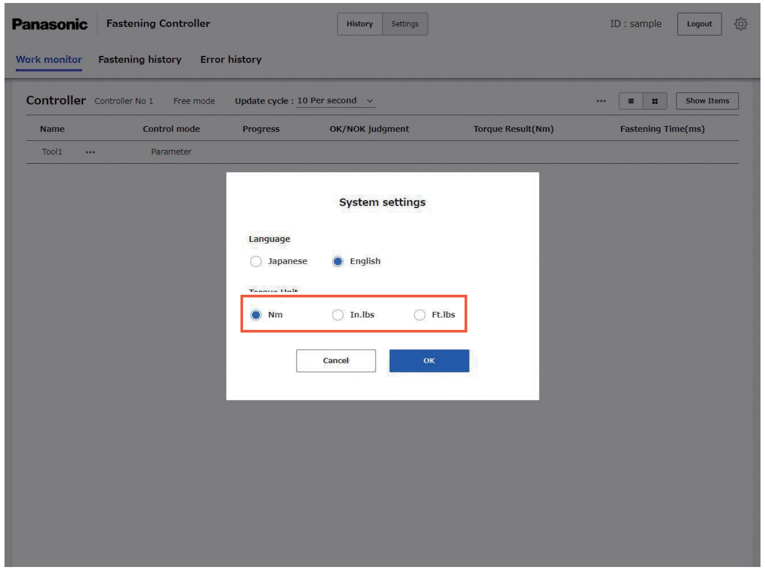

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	20.8	353.9

2 **Selezionare l’unità di coppia nella schermata “System settings”.**

È possibile selezionare l’unità di coppia da “Nm”, “In.lbs” e “Ft.lbs”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Cancel
OK

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter				

System settings

Language
○ Japanese ● English

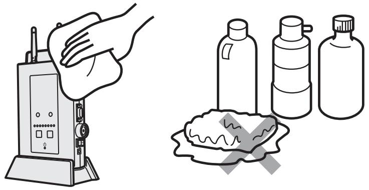
Torque Unit
● Nm ○ In.lbs ○ Ft.lbs

PULIZIA E CONSERVAZIONE

Come pulire

Pulizia con un panno morbido

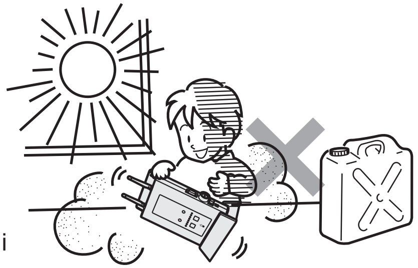
Non utilizzare un panno umido, solventi, alcol, benzina o altri liquidi volatili.
(Sono causa di scolorimento, deformazione o incrinature)



Come conservare

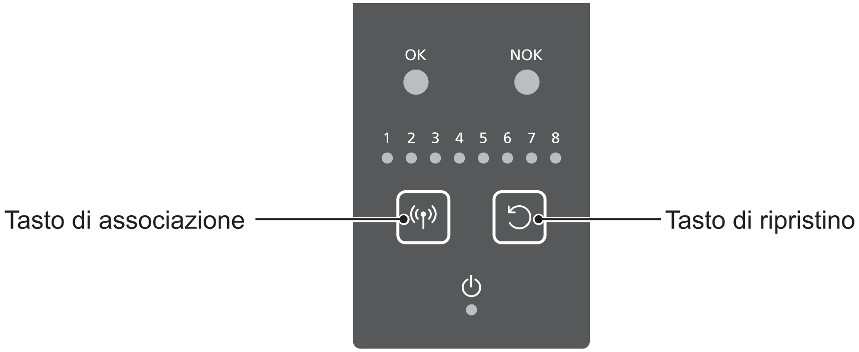
Evitare le seguenti condizioni durante la conservazione.

- Cabine di automobili o altri luoghi molto caldi
- Luoghi esposti alla luce solare diretta
- Luoghi esposti ad acqua o umidità
- Luoghi che presentano molti corpi estranei o polvere
- Luoghi alla portata di bambini
- Luoghi con benzina o altri elementi infiammabili
- Luoghi con rischio di caduta



Inizializzazione del Controller

Per inizializzare (ripristino di fabbrica) il controller, tenere premuti insieme il tasto di associazione e il tasto di ripristino per almeno 10 secondi.

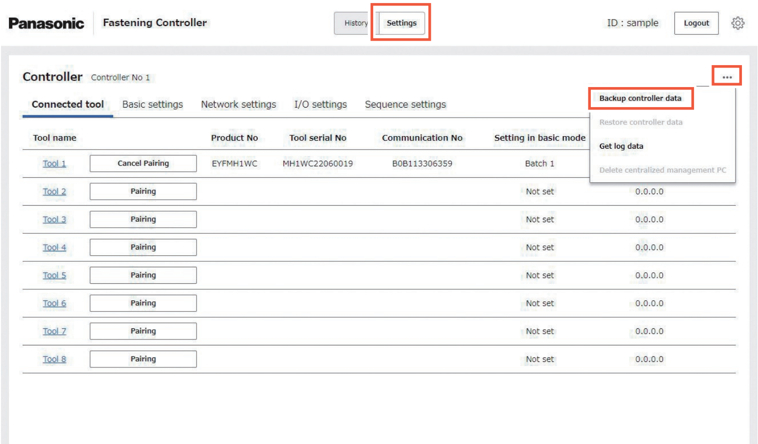

OK
NOK
1 2 3 4 5 6 7 8
Tasto di associazione
Tasto di ripristino

* Potrebbero essere necessari più di 5 minuti a seconda dell’uso di conservazione.
* Non è possibile eseguire questa operazione quando i tasti sull’unità sono disabilitati.

Fare riferimento a P66

Esecuzione di un backup delle impostazioni

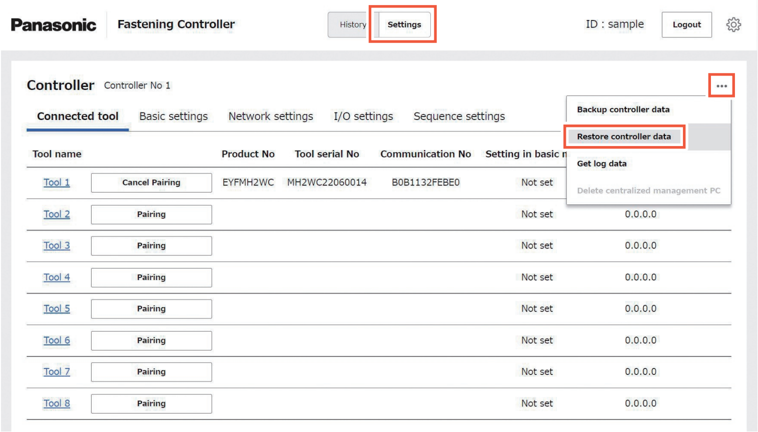
Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto.
Fare clic su ··· (tasto opzione controller) e quindi su [Backup controller data].
È possibile eseguire il backup delle impostazioni del controller e degli utensili.
* I dati della cronologia di fissaggio non vengono sottoposti a backup. Esportarli nel formato CSV secondo necessità.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Recupero delle impostazioni

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto.
Fare clic su ··· (tasto opzione controller) e quindi su [Restore controller data].
È possibile recuperare le impostazioni del controller e degli utensili dal relativo backup.
* Non è possibile eseguirlo durante il controllo del fissaggio.
* Non è possibile eseguirlo quando l'associazione con gli utensili è registrata. Annullare l'associazione.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

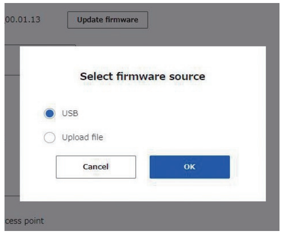
Aggiornamento del firmware

È possibile aggiornare il firmware del controller e della parte di comunicazione degli utensili.

Utilizzare uno dei seguenti metodi per aggiornare il firmware.

① Utilizzo della porta USB del controller.
  * Non è possibile utilizzare un'unità flash USB con un blocco password.
  * Salvare un solo file dati del firmware direttamente in un'unità flash USB senza creare una cartella.

② Scrittura dal PC per la configurazione.
  * Quando si seleziona "Upload file", selezionare il file dati firmware salvato sul PC nella schermata di selezione.

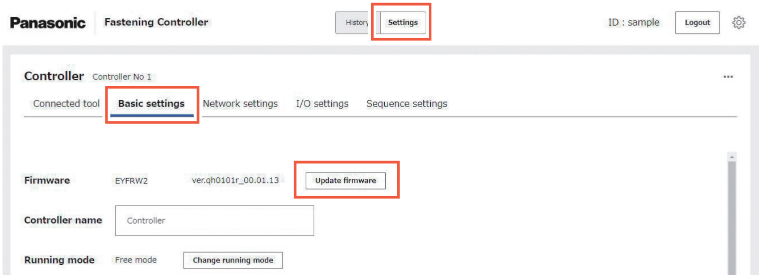

00.01.13
Update firmware
Select firmware source
Cancel
OK
cess point

● USB
○ Upload file

Per la versione attuale del firmware, accedere al nostro sito web. **Fare riferimento a P2**
Oppure contattare il nostro personale di vendita.

■ Per il controller

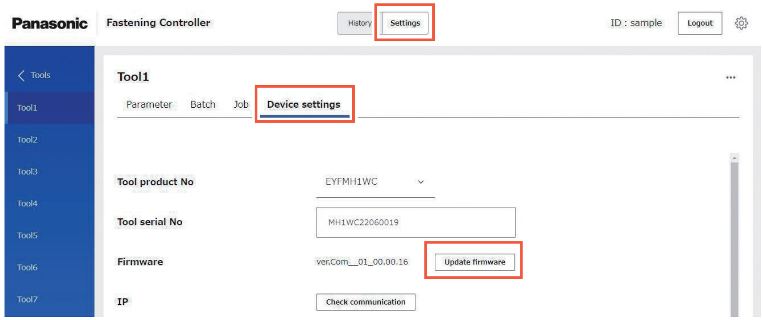
Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto, selezionare la scheda "Basic settings" e fare clic su [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode

■ Per la parte di comunicazione dell'utensile

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto e selezionare la scheda "Connected tool".
Nella schermata "Connected tool", fare clic sul numero utensile desiderato.
Dalla scheda "Device settings" nella schermata per il numero utensile, fare clic su [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
···
Parameter
Batch
Job
Device settings
Update firmware
Check communication

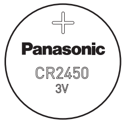
Tool product No EYFMH1WC
Tool serial No MH1WC22060019
Firmware ver.Com__01_00.00.16
IP

PULIZIA E CONSERVAZIONE (cont.)

Sostituzione della batteria a bottone

Per mantenere il funzione l’orologio (RTC) del controller, sostituire la batteria a bottone facendo riferimento alla guida di sostituzione di seguito.

■Tipo di batteria



CR2450

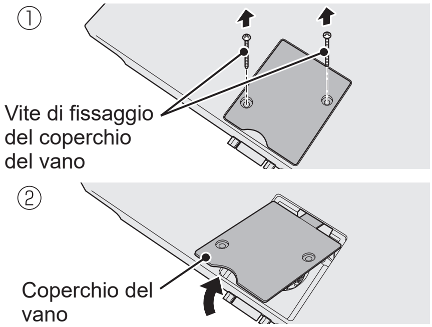
■Guida alla sostituzione

La batteria a bottone viene utilizzata per mantenere in funzione l’orologio quando il controller è spento.
Per ridurre al minimo il consumo, in linea di principio, non spegnere l’unità controllata.

L’alimentazione è accesa 12 ore al giorno (solo giorni lavorativi)	L’alimentazione è sempre accesa
Circa 3 anni	Circa 8 anni

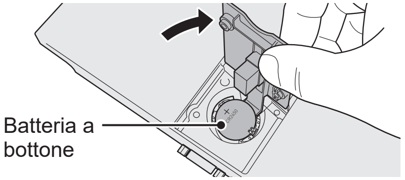
Sostituirla con la seguente procedura o contattare il rivenditore.
Si consiglia che il lavoro sia eseguito da una persona con conoscenze elettriche.

1 **Rimuovere le 2 viti di fissaggio del coperchio del vano e quindi rimuovere il coperchio del vano.**

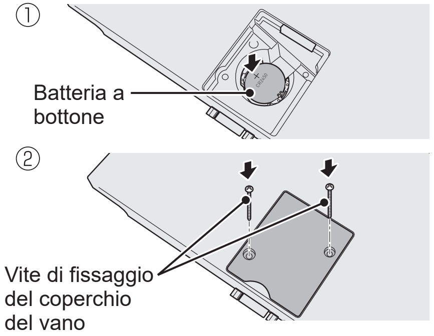


2 **Utilizzando il coperchio del vano, estrarre la batteria a bottone.**

Estrarre la batteria a bottone con il gancio del coperchio del vano.



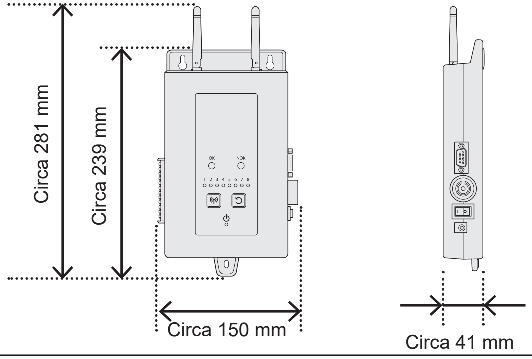
3 **Inserire una nuova batteria a bottone e fissare il coperchio del vano con le 2 viti di fissaggio del coperchio del vano.**



CAPACITÀ E SPECIFICHE

Specifiche del controller

Ricezione di segnali di completamento e di errore del fissaggio durante il lavoro di montaggio del prodotto all’interno

Modello n.	EYFRW2
Alimentazione	100 V-240 V CA, 50/60 Hz
Standard di comunicazione wireless	Wireless LAN (IEEE.802.11 a/b/g/n)
Banda di frequenza	2,4 GHz: da 2,412 GHz a 2,472 GHz 5 GHz: da 5,180 GHz a 5,240 GHz
Canale	2,4 GHz: da 1 a 13 canali 5 GHz: 36, 40, 44, 48 canali
Potenza di trasmissione [*1]	2,4 GHz: 89 mW 5 GHz: 141 mW
Copertura	2,4 GHz: circa 16 m 5 GHz: circa 10 m
Numero di utensili registrabili	8 (massimo)
Terminali di ingresso/uscita (I/O)	8 ingressi e 8 uscite
Valore nominale terminale di ingresso	24 V CC, 50 mA
Valore nominale terminale di uscita	30 V CC, 3 A
Consumo di corrente	Circa 30 W
Intervalli di temperatura e umidità operative	Da 0 °C a 45 °C, da 20% a 90%
Dimensione (dimensioni stimate) Lunghezza totale × altezza totale × larghezza	Circa 150 × 239 × 41 mm (altezza antenne incluse: 281 mm) 
Massa (Peso)	Circa 550 g (solo unità principale)
Interfaccia di comunicazione	Ethernet × 2, RS232C × 1, USB-A × 1
Numero di dati che possono essere memorizzati	Circa 200,000 registri della cronologia di fissaggio (compresi i dati della forma d’onda)
Modelli di utensili compatibili	EYFMH1WC, EYFMH2WC, EYFMH1WP, EYFMH2WP

[*1] La potenza di trasmissione è stata misurata da una organizzazione di terze parti.

Specifiche wireless

Frequenze per canale

Banda di frequenza	Canale	Frequenza
2,4 GHz	Canale 1	2,412 GHz
	Canale 2	2,417 GHz
	Canale 3	2,422 GHz
	Canale 4	2,427 GHz
	Canale 5	2,432 GHz
	Canale 6	2,437 GHz
	Canale 7	2,442 GHz
	Canale 8	2,447 GHz
	Canale 9	2,452 GHz
	Canale 10	2,457 GHz
	Canale 11	2,462 GHz
	Canale 12	2,467 GHz
	Canale 13	2,472 GHz
5 GHz	Canale 36	5,180 GHz
	Canale 40	5,200 GHz
	Canale 44	5,220 GHz
	Canale 48	5,240 GHz

Specifiche WebUI

Sistema operativo compatibile	Windows 10 o versione successiva (che supporta uno dei browser web elencati di seguito)
Browser web supportato	Microsoft Edge versione 102 o successiva oppure Google Chrome versione 102 o successiva
Lingua supportata	Inglese, giapponese
Risoluzione dello schermo consigliata	1024 × 768 o più

ATTENZIONE

- Alcuni PC non sono disponibili anche se soddisfano l’ambiente operativo.
- A seconda dell’ambiente di utilizzo, ecc. del PC, le descrizioni e le schermate in queste Istruzioni per l’uso potrebbero essere diverse dalle descrizioni e dalle schermate reali.
  Tenerlo in considerazione.
- I contenuti di queste Istruzioni per l’uso sono soggette a modifiche senza preavviso.
- È vietata qualsiasi riproduzione totale o parziale dei contenuti di queste Istruzioni per l’uso senza previa autorizzazione.
- Le descrizioni su come utilizzare Windows in queste Istruzioni per l’uso usano le procedure e le schermate di Windows 10.
- WebUI non funziona con sistemi operativi diversi dal sistema operativo compatibile.
- Il funzionamento non è garantito per tutti i PC che soddisfano l’ambiente consigliato.

■ Termini di utilizzo (leggere prima dell’uso)

<Limitazioni>
WebUI è un software di configurazione per EYFRW2.

ATTENZIONE

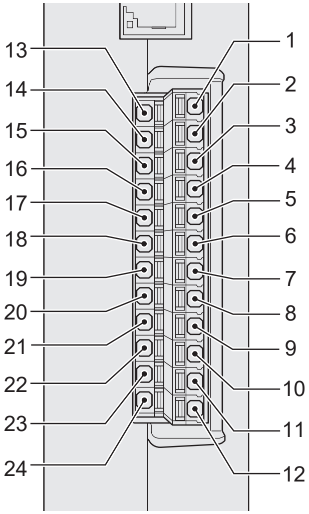
- Osservare quanto segue quando si utilizza la funzione.
  Si ritiene che l’utente accetti i seguenti termini di utilizzo utilizzando la funzione.

[Condizioni d’uso]

Panasonic non fornisce alcuna garanzia di alcun tipo riguardo alla funzione.
Panasonic non si assume alcuna responsabilità per eventuali danni incluse, senza limitazioni, perdite dirette, perdite indirette, perdite di diffusione, perdite consequenziali e perdite speciali causate dall’uso o dall’azionamento della funzione.
Sono vietate la riproduzione e la distribuzione non autorizzate della funzione.

Specifiche degli I/O di contatto

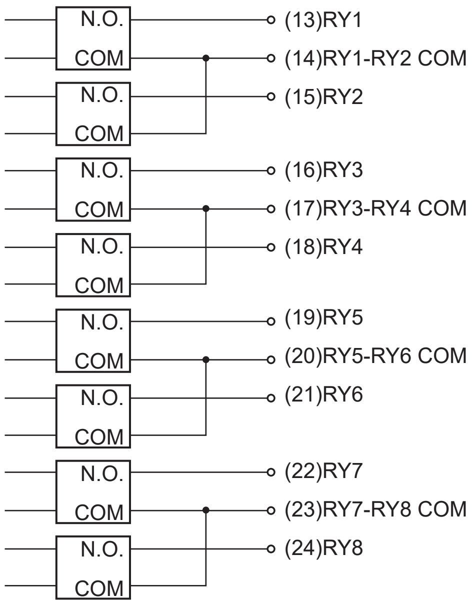
■ Assegnazione tra i terminali del relè di uscita e i terminali di ingresso

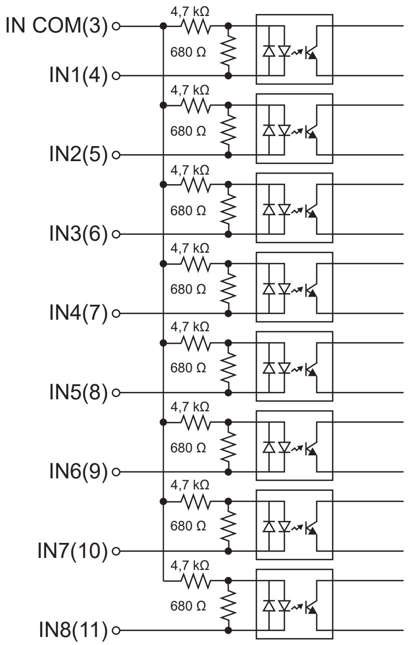

13
14
15
16
17
18
19
20
21
22
23
24
1
2
3
4
5
6
7
8
9
10
11
12

N.	Assegnazione dei pin
1	+24 V
2	+24 V
3	IN COM
4	IN 1
5	IN 2
6	IN 3
7	IN 4
8	IN 5
9	IN 6
10	IN 7
11	IN 8
12	24 V return

N.	Assegnazione dei pin
13	RY1
14	RY1-RY2 COM
15	RY2
16	RY3
17	RY3-RY4 COM
18	RY4
19	RY5
20	RY5-RY6 COM
21	RY6
22	RY7
23	RY7-RY8 COM
24	RY8

■ Schema di collegamento blocco terminali


N.O.
COM
(13)RY1
(14)RY1-RY2 COM
(15)RY2
(16)RY3
(17)RY3-RY4 COM
(18)RY4
(19)RY5
(20)RY5-RY6 COM
(21)RY6
(22)RY7
(23)RY7-RY8 COM
(24)RY8


IN COM(3)
4,7 kΩ
680 Ω
IN1(4)
IN2(5)
IN3(6)
IN4(7)
IN5(8)
IN6(9)
IN7(10)
IN8(11)

PRECAUZIONI PER LA COMUNICAZIONE WIRELESS

Nota per l'uso di un dispositivo WLAN

Il dispositivo utilizza una banda di frequenza condivisa con altri tipi di apparecchiature, compresi dispositivi industriali, scientifici e medici (per es. a microonde) e stazioni radio come una stazione radio di servizio (con licenza) e una stazione radio a bassa potenza (senza licenza) per l'identificazione mobile utilizzata nelle linee di fabbrica e in una stazione radio amatoriale (con licenza).

1. Prima di utilizzare il dispositivo, confermare che non ci siano locali o stazioni radio a bassa potenza per l'identificazione mobile o nessuna stazione radio amatoriale che operano nelle vicinanze.
2. Se il dispositivo provoca interferenze dannose con una stazione radio per l'identificazione mobile, interrompere immediatamente l'uso della banda e consultare il centro di assistenza riportato di seguito per la soluzione del problema di interferenza (es. installazione di una partizione).
3. Se il dispositivo provoca interferenze dannose con un sito o una stazione radio a bassa potenza per l'identificazione dei dispositivi mobili o una stazione radio amatoriale o altri problemi simili, consultare il centro di assistenza.

CERTIFICAZIONE RADIO (cont.)

■ Ci possono essere disturbi, copertura radio più corta o malfunzionamenti nelle seguenti condizioni ambientali.

- È presente un ostacolo (ad es. un oggetto di metallo o cemento armato) che impedisce la propagazione radio senza problemi tra l'unità utensile abilitata per wireless e il controller.
- Le antenne del controller sono coperte con metallo.
- Il corpo di un operatore interferisce con la propagazione radio tra un operatore (l'unità utensile con funzione wireless) e il controller.
- C'è un forno a microonde, un PC o qualsiasi altro dispositivo che causa rumore nelle vicinanze.
- Un telefono cellulare o un telefono PHS viene utilizzato vicino all'utensile abilitato wireless e al controller.

TERMINI DI LICENZA

Termini di licenza del software

Questo prodotto incorpora il seguente software:

(1) il software sviluppato in modo indipendente da o per Panasonic Corporation,
(2) il software di proprietà di terzi e concesso in licenza a Panasonic Corporation,
(3) il software concesso in licenza in base a GNU General Public License, Version 1.0 (GPL V1.0),
(4) il software concesso in licenza in base a GNU General Public License, Version 2.0 (GPL V2.0),
(5) il software concesso in licenza in base a GNU General Public License, Version 3.0 (GPL V3.0),
(6) il software concesso in licenza in base a GNU LESSER General Public License, Version 2.1 (LGPL V2.1),
(7) il software concesso in licenza in base a GNU LESSER General Public License, Version 3.1 (LGPL V3.1),
(8) il software concesso in licenza in base a SMAIL General Public License(SMAIL),
(9) il software concesso in licenza in base a Mozilla Public License Version 1.1 (MPL V1.1),
(10) il software concesso in licenza in base a Mozilla Public License Version 2.0 (MPL V2.0) e/o
(11) il software open source diverso dal software concesso in licenza in base a GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL, MPL V1.1 e/o MPL V2.0.

Il software classificato come (3) - (11) viene distribuito nella speranza che sia utile, ma SENZA ALCUNA GARANZIA, anche senza alcuna garanzia implicita di COMMERCIABILITÀ o IDONEITÀ PER UNO SCOPO PARTICOLARE.

Per ulteriori dettagli sui detentori del copyright e sulle licenze, vedere da pagina 93 in avanti.

Ad almeno 3 anni dalla consegna di questo prodotto, Panasonic fornirà a terzi che ci contattano alle informazioni di contatto riportate di seguito, a un costo maggiore del nostro costo per effettuare fisicamente la distribuzione del codice sorgente, una copia completa leggibile dalla macchina del corrispondente codice sorgente coperto da GPL V1.0, GPL V2.0, GPL V3.0, LGPL V2.1, LGPL V3.1, SMAIL o dalle altre licenze con obbligo di fare ciò, nonché il rispettivo avviso di copyright di queste.

Informazioni di contatto: oss-cd-powertools-gl@ml.jp.panasonic.com

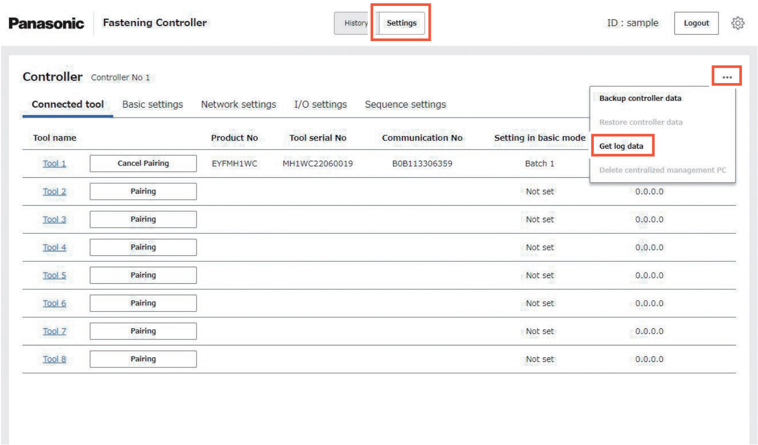
CODICE DI ERRORE

Dispositivo	Codice di errore	Tipo	Categoria	Evento	Azione
Controller	0xEF21	Avvertenza	Errore hardware	Errore CPU secondaria (guasto)	Riavviare il controller. Se il problema persiste, il dispositivo potrebbe essere guasto. Contattare il proprio rivenditore.
	0xEF51	Avvertenza	Errore hardware	Errore Ether0	Il dispositivo potrebbe essere guasto. Contattare il proprio rivenditore.
	0xEF52	Avvertenza	Errore hardware	Errore Ether1	Il dispositivo potrebbe essere guasto. Contattare il proprio rivenditore.
	0xEF61	Avvertenza	Errore hardware	Errore modulo Wi-Fi (guasto)	Riavviare il controller. Se il problema persiste, il dispositivo potrebbe essere guasto. Contattare il proprio rivenditore.
	0xCE42	Errore	Errore software	Errore contenuto impostazione	Ripristinare il controller alle impostazioni di fabbrica ed effettuare nuovamente le impostazioni.
	0xCE43	Errore	Errore software	Errore di recupero informazioni	Tenere premuto il tasto di ripristino sul controller per 3 secondi o più.
	0xEC61	Avvertenza	Errore software	La capacità di memorizzare la cronologia di fissaggio è piena (operazione sospesa)	Eliminare i registri di cronologia di fissaggio nella schermata della cronologia di fissaggio per liberare una certa capacità. Esportarli prima di eliminarli come necessario.
Utensile	0x4301	Attenzione	Errore software	La capacità di memorizzazione è piena	Accedere al software di impostazione utensile (software Tool Manager) ed eliminare i registri della cronologia di lavoro.
	0x4302	Attenzione	Errore software	Il numero di risultati inviati in una coda ha raggiunto il limite superiore.	L’utensile non può comunicare con il controller. Cambiare il luogo di lavoro. Se il problema persiste, il dispositivo potrebbe essere guasto. Contattare il proprio rivenditore.
	0x3303	Errore	Errore software	Rilevato ripristino del microcontroller di controllo del motore	Un errore che si era verificato è stato risolto.
	0x3304	Errore	Errore software	Rilevato ripristino del microcontroller di calcolo della coppia	Un errore che si era verificato è stato risolto.

Dispositivo	Codice di errore	Tipo	Categoria	Evento	Azione
Utensile	0x4305	Attenzione	Errore software	Batteria RTC bassa	Sostituire la batteria a bottone all’interno dell’unità utensile.
	0x4306	Attenzione	Errore software	Errore di aggiornamento firmware	Confermare che il file firmware sia corretto.
	0x4315	Attenzione	Errore software	Errore di comunicazione USB	Un errore che si era verificato è stato risolto.
	0x4316	Attenzione	Errore software	Modulo Wi-Fi riavviato	Un errore che si era verificato è stato risolto.
	0x1401	Avvertenza	Errore hardware	Errore modulo Wi-Fi	Un errore che si era verificato è stato risolto.
	0x1402	Avvertenza	Errore hardware	Errore microcontroller di controllo del motore	Un errore che si era verificato è stato risolto.
	0x1403	Avvertenza	Errore hardware	Errore microcontroller di calcolo coppia	Un errore che si era verificato è stato risolto.
	0x1404	Avvertenza	Errore hardware	Errore unità flash esterno	Un errore che si era verificato è stato risolto.
	0x1405	Avvertenza	Errore hardware	Errore RTC	Un errore che si era verificato è stato risolto.
	0x1406	Avvertenza	Errore hardware	Errore di identificazione circuito	Un errore che si era verificato è stato risolto.
	0x1407	Avvertenza	Errore hardware	Nessuno spazio di scambio rimanente	Un errore che si era verificato è stato risolto.
	0x1408	Avvertenza	Errore hardware	Spazio dei parametri danneggiato	Un errore che si era verificato è stato risolto.

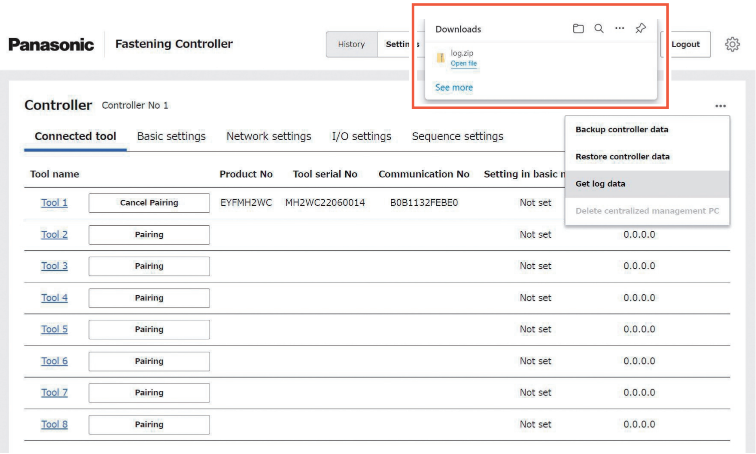
DATI DEL REGISTRO DI FUNZIONAMENTO

Nella pagina superiore (la pagina iniziale della schermata di impostazione), fare clic su [Settings] in alto.
Fare clic su ··· (tasto opzione controller) e quindi su [Get log data].
È possibile ottenere i registri delle operazioni del controller.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
···
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

▼


Panasonic
Fastening Controller
History
Settin
Logout
Downloads
log.zip
Open file
See more
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
···
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic m	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

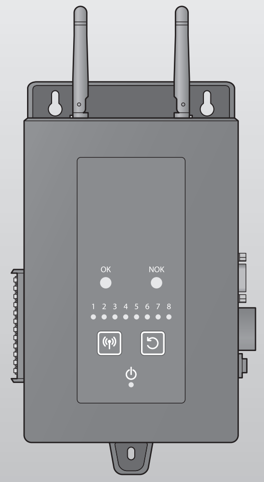
Panasonic®

Manual de instrucciones

Montaje del controlador

Núm. de modelo:

EYFRW2


OK
NOK
1 2 3 4 5 6 7 8

IMPORTANTE

Lea y siga las instrucciones de seguridad y el Manual de instrucciones antes de utilizar este producto.
No utilice la función inalámbrica fuera del país donde adquirió el producto.
Hacerlo podría infringir las leyes y normativas locales.

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PUESTA EN MARCHA

Entorno de funcionamiento

Debe utilizar un navegador web para configurar el controlador.
Prepare un PC que cumpla con los siguientes requisitos.

Entorno de funcionamiento

SO compatible	Windows 10 o posterior (compatible con cualquiera de los siguientes navegadores web)
Navegador web	Microsoft Edge versión 102 o posterior o Google Chrome versión 102 o posterior

- Algunos PC no están disponibles incluso si cumplen con el entorno operativo.
- En función del entorno de uso, etc., de su PC, las descripciones y pantallas de este Manual de instrucciones podrían ser diferentes de las descripciones y pantallas reales. Por favor, téngalo en cuenta.
- El contenido de este Manual de instrucciones está sujeto a cambios sin previo aviso.
- Cualquier reproducción del contenido de este Manual de instrucciones, en su totalidad o en parte, está prohibida sin permiso.
- Las cifras en este Manual de instrucciones son solo como referencia.

[Nota]
Mantenga siempre actualizado el firmware.
Encontrará los datos más recientes sobre el firmware en la siguiente página web, que proporciona acceso al Manual de instrucciones.
Para saber cómo actualizar el firmware, consulte “Actualización del firmware”.

Consulte P81

Cómo acceder al Manual de instrucciones

La versión actual del Manual de instrucciones del controlador y otros recursos se pueden descargar desde el siguiente sitio web.

https://www.panasonic-powertools.eu/es/construction/documentos.htm

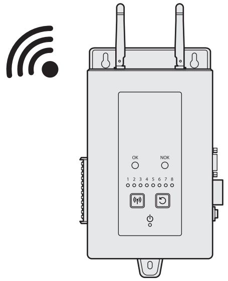
Marca comercial

- Microsoft y Windows son marcas registradas o marcas comerciales de Microsoft Corporation en EE. UU. y/o en otros países.
- Las capturas de pantalla se utilizan de acuerdo con las directrices de Microsoft Corporation.
- Wi-Fi y el logotipo de Wi-Fi son marcas registradas de Wi-Fi Alliance.

Otros nombres, incluyendo nombres de empresas y productos en este Manual de instrucciones, son marcas comerciales o marcas comerciales registradas de sus respectivas compañías.
™ y ® pueden omitirse en estas Manual de instrucciones.

Uso previsto

Este producto es un controlador que se comunica inalámbricamente con herramientas. Puede recibir datos del historial de sujeción de las herramientas, realizar ajustes en las herramientas y controlar la cantidad a fijar.



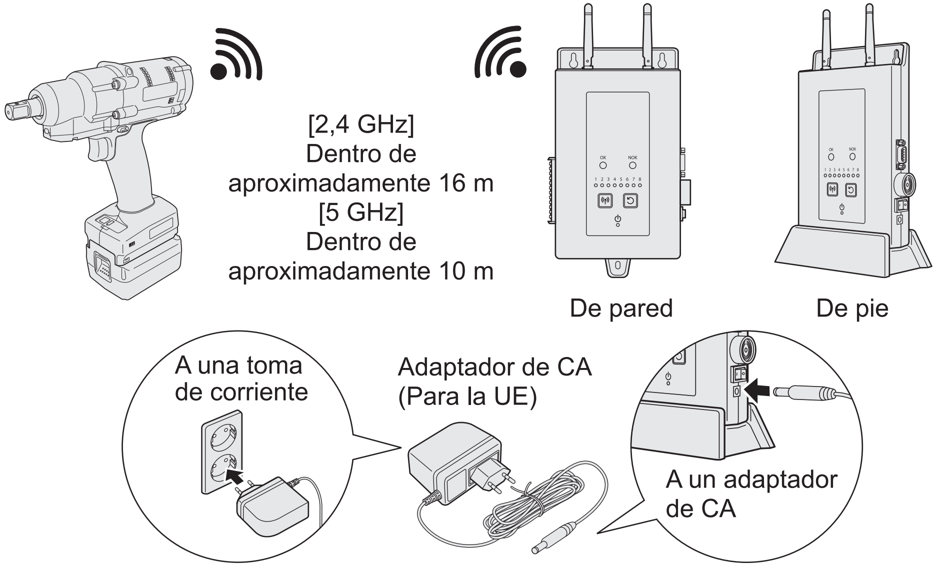
01 Conecte hasta 8 herramientas

02 Compatibilidad con bandas de 2,4 GHz y 5 GHz

03 Admite una función de control de la fijación y una función de almacenamiento del historial

Configuración

Instale el controlador en un rango en el que la comunicación inalámbrica con las herramientas sea posible.
Suministre alimentación a través de una toma de CA y conéctela a dispositivos externos a través de interfaces de comunicación según sea necesario.


[2,4 GHz]
Dentro de aproximadamente 16 m
[5 GHz]
Dentro de aproximadamente 10 m
De pared
De pie
A una toma de corriente
Adaptador de CA (Para la UE)
A un adaptador de CA

- El controlador contiene una pila de botón para mantener la función del reloj (RTC) en funcionamiento.
  Se recomienda mantener la alimentación encendida para reducir el consumo de la pila de botón interna.
- La cobertura inalámbrica puede cambiar según el entorno.

PRECAUCIONES DE SEGURIDAD

Siempre siga las instrucciones

A continuación se indican las instrucciones que debe seguir siempre para evitar daños personales y materiales.

■ A continuación se presenta la gravedad de los daños causados por un uso incorrecto.

⚠ ADVERTENCIA	Puede provocar la muerte o lesiones graves.
⚠ PRECAUCIÓN	Puede causar lesiones menores o daños a la propiedad.

■ El contenido que se debe observar se presenta con los siguientes símbolos. (Lo siguiente son ejemplos)

🛇	NO DEBE realizar la acción.
❗	DEBE realizar la acción.

⚠ ADVERTENCIA

❗ **Obligatorio**	● **Asegúrese de que no haya objetos enterrados, como conductos, tuberías de agua y tuberías de gas, en el lugar de instalación.** Tocar estos objetos enterrados puede causar una descarga eléctrica o causar fugas eléctricas o de gas.
	● **Inserte el enchufe de alimentación hasta el fondo.** La inserción incompleta puede causar descargas eléctricas o generación de calor y provocar un incendio. No utilice un enchufe dañado o un enchufe suelto.
	● **Limpie el polvo del enchufe de alimentación de forma habitual.** El polvo acumulado en el enchufe puede absorber la humedad y provocar un aislamiento deficiente con el consiguiente riesgo de incendio. Desconecte el enchufe de alimentación y límpielo con un paño seco.
	● **Utilice únicamente el cable de alimentación especificado.** El uso de cualquier otro enchufe puede causar descargas eléctricas, cortocircuitos o incendios.
	● **Mantenga el lugar de trabajo suficientemente iluminado.** Una mala visibilidad en un lugar de trabajo oscuro puede provocar un accidente o lesiones.

⚠ ADVERTENCIA

🛇 **Prohibido**	● **No utilice enchufes o dispositivos de cableado que superen el valor nominal. Utilice solo 100 V-240 V CA.** Si se sobrepasa el valor nominal debido a una sobrecarga de la toma de corriente, se puede generar calor y provocar un incendio.
	● **No dañe el cable de alimentación ni el enchufe. (Evite dañarlo, romperlo, modificarlo, acercarlo a una fuente de calor, doblarlo con fuerza, retorcerlo, tirar de él, colocarle una carga pesada, pellizcarlo o atarlo)** El uso de un cable o enchufe dañado puede provocar una descarga eléctrica, un cortocircuito o un incendio. Compruebe el cable y el enchufe periódicamente y si presentan daños, consulte a su distribuidor.
	● **No utilice el controlador con una fuente de alimentación de CC, generador de motor o transformador.** ● **No utilice el controlador en un lugar con líquido o gas inflamable.** Hacerlo puede causar la generación de calor, humo, fuego o explosión.
	● **No instale el controlador en una pared de mortero.** Atornillarlo en una pared de mortero puede provocar la generación de calor de la malla metálica del interior, con el consiguiente riesgo de incendio en caso de fuga eléctrica.
	● **Desconecte el enchufe de alimentación entre usos.** Mantenerlo conectado puede causar un aislamiento deficiente que provoque descargas eléctricas o incendios por fugas eléctricas.
🛇 **No desmontar**	● **No modifique el controlador. No desmonte ni repare el controlador.** De lo contrario, podrían producirse incendios, descargas eléctricas o lesiones. Para la reparación, consulte a su distribuidor o a nuestro Centro de Atención al Cliente.
🛇 **Mantener seco**	**Evite el siguiente uso de las herramientas cargadas.** ● **No las utilice ni las deje expuestas a la lluvia o a la humedad.** ● **No las utilice sumergidas bajo el agua.** De lo contrario, podría provocar humo, incendios o explosiones.
🛇 **Sin manos húmedas**	● **No conecte ni desconecte el enchufe de la toma de corriente con las manos mojadas.** Si lo hace, podría provocar una descarga eléctrica.

PRECAUCIONES DE SEGURIDAD Siempre siga las instrucciones

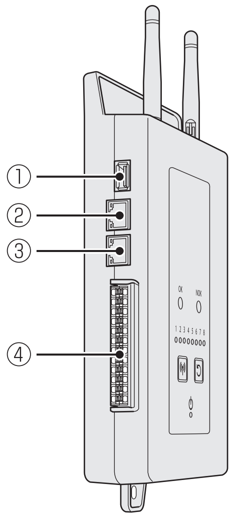
⚠ PRECAUCIÓN

Prohibido	● **No utilice el controlador para ningún otro propósito que no sea el previsto.** De lo contrario, podrían producirse lesiones.
	● **No coloque el controlador en un lugar accesible para los niños.** De lo contrario, podría provocar un accidente o problemas.
	● **No utilice el controlador con aceite u otro material extraño adherido al mismo.** Dicho aceite u otro material extraño puede penetrar en el interior, provocando calor, fuego o explosión.
	● **No guarde el cuerpo principal en un lugar donde la temperatura pueda subir a 45 °C o más.** Si lo hace, podría provocar un funcionamiento anómalo.
	● **No trabaje en una posición inusual.** De lo contrario, podría caerse y sufrir lesiones. Siempre colóquese sobre una base estable y mantenga un buen equilibrio.
	● **No utilice el controlador cuando esté cansado.** Si lo hace, podría provocar un accidente o lesiones.
	● **No permita que un niño ni cualquier otra persona que no sea un operador se acerquen al lugar de trabajo o toque el controlador.** De lo contrario, podrían producirse lesiones.
	● **No utilice el controlador con dispositivos incompatibles.** De lo contrario, podría provocar un funcionamiento incorrecto y provocar un accidente.
Obligatorio	● **Para instalar el controlador en una pared, asegúrelo con los tornillos para evitar que se caiga.** Podría sufrir lesiones si se cae.
	● **Para desconectar el enchufe de alimentación, sujete siempre la clavija de alimentación sin tirar del cable.** Si tira del cable, podría provocar una descarga eléctrica o un cortocircuito.
	● **Antes de su uso, compruebe si el controlador y otras piezas están dañadas y confirme su funcionamiento normal.** De lo contrario, podría producirse una rotura, con el consiguiente riesgo de lesiones.
	● **Mantenga el lugar de trabajo limpio.** Un lugar o una mesa de trabajo desordenados pueden provocar un accidente.
	● **Piense bien cómo manejar y trabajar, preste atención al entorno que le rodea y utilice el sentido común durante el trabajo.** De lo contrario, podría provocar un accidente o lesiones.

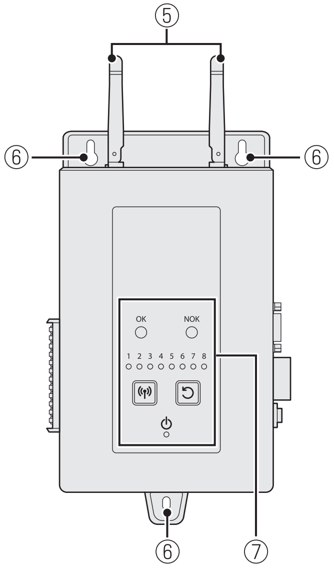
DESCRIPCIÓN DE LAS FUNCIONES

Cuerpo principal

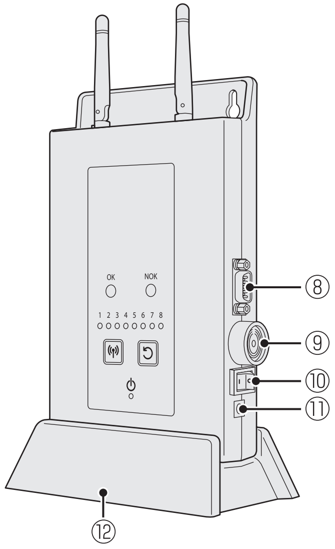
■ Lado izquierdo



■ Lado delantero

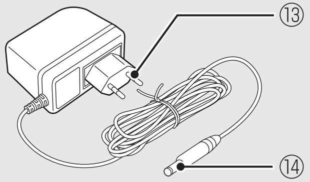


■ Lado derecho

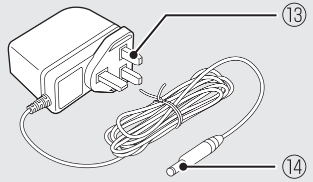


■ Adaptador de CA

Para la UE



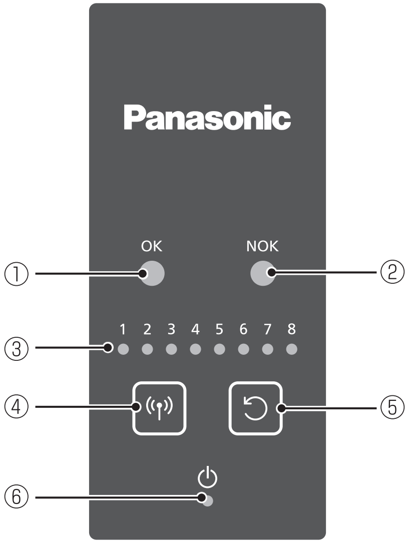
Para el RU



①	Puerto USB (tipo A)
②	Puerto Ethernet (para el mantenimiento)
③	Puerto Ethernet (para la red)
④	1～24 Puerto de E/S
⑤	Antena de diversidad
⑥	Orificio para colgar en la pared
⑦	Panel de control

⑧	IOIOI Puerto de serie (RS232C)
⑨	Zumbador
⑩	Interruptor de alimentación
⑪	Toma del adaptador de CA
⑫	Soporte del controlador
⑬	Enchufe de alimentación
⑭	Conector de alimentación

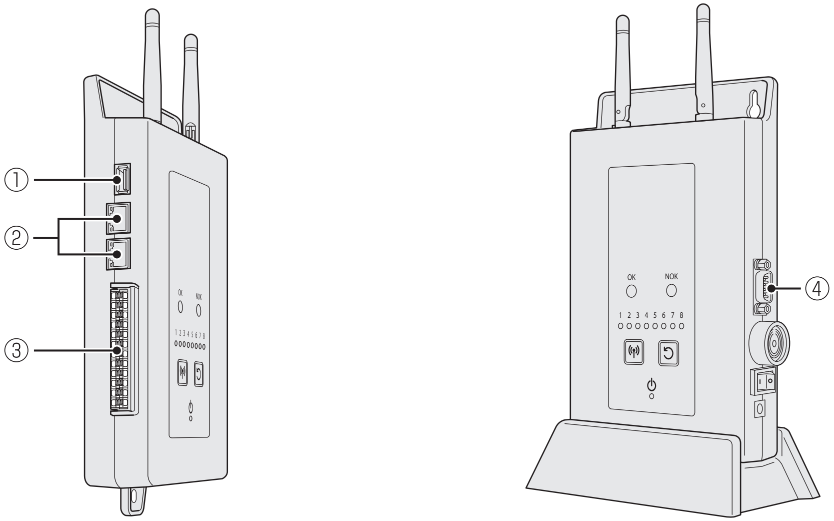
Panel de control



①	Lámpara de fijación OK Verde sólido: Se ha recibido una señal de finalización de fijación. Apagado: Todavía no se ha recibido una señal de finalización de fijación.
②	Lámpara de fijación NOK Rojo sólido: Se ha recibido una señal de fallo de fijación. Apagado: Todavía no se ha recibido la señal de fallo de fijación.
③	Lámpara de comunicación (N.º 1 a N.º 8) Azul sólido: Se ha registrado una herramienta. Azul parpadeante: Una herramienta se está registrando o está fuera de cobertura. Apagado: Aún no se ha registrado ninguna herramienta.

④	Tecla de emparejamiento
⑤	Tecla de reinicio
⑥	Lámpara de alimentación Amarillo sólido: Encendido (modo de recepción) Apagado: Apagado Amarillo parpadeante: Error

Interfaz de comunicación



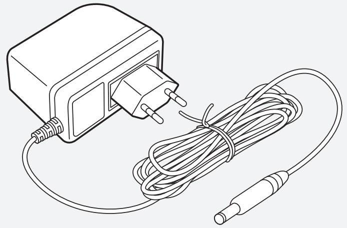
Interfaz		Detalles
①	USB	Utilice este puerto para conectar una unidad flash USB para actualizar el firmware. • USB2.0 tipo A × 1 • Conecte directamente una unidad flash USB (sin extensión)
②	Ethernet (para mantenimiento y red)	Utilice este puerto para conectarse a un PC para la configuración o un sistema anfitrión. • 10Base-T/100Base-TX × 2 • Longitud del cable: menos de 30 m * Conecte el puerto Ethernet (para mantenimiento) directamente a un PC para la configuración. (No utilice un concentrador)
③	Terminal de entrada/ salida (E/S)	Utilice este puerto para conectar a un dispositivo externo (p. ej., un PLC). • 8 entradas y 8 salidas • Longitud del cable: 10 m o menos • Clasificación del terminal de entrada: 24 V CC, 50 mA • Clasificación del terminal de salida: 30 V CC, 3 A
④	Puerto de serie (RS232C)	Utilice este puerto para conectar a un dispositivo externo (p. ej., un PLC). • RS232C × 1 • Longitud del cable: 10 m o menos

DESCRIPCIÓN DE LAS FUNCIONES (cont.)

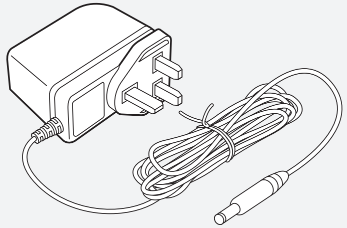
Accesorio

■ Adaptador de CA × 1

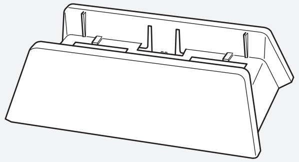
Para la UE
(WEYFRW1K7751)



Para el RU
(WEYFRW1K7851)

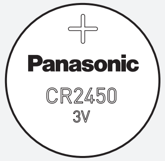


■ Soporte del controlador × 1
(EYFRW1F7001)



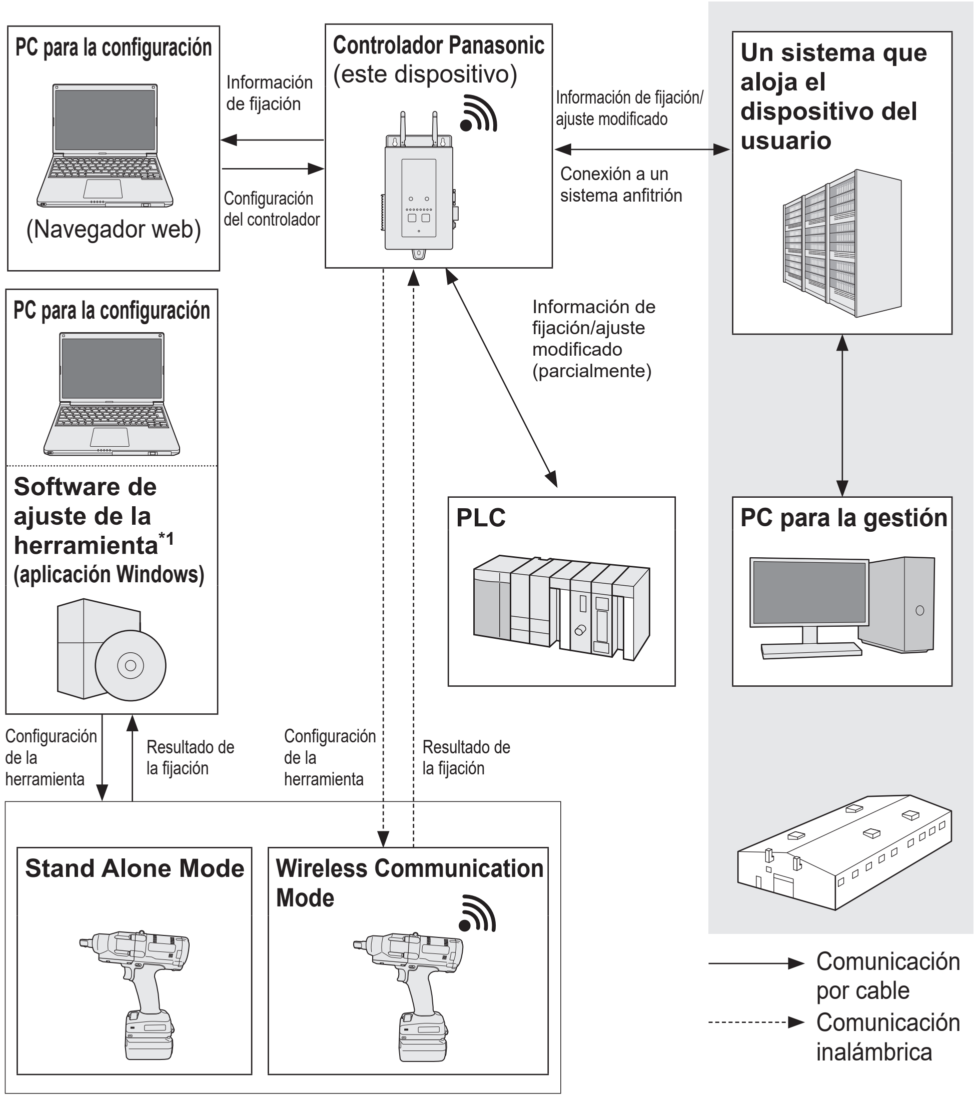
Consumibles

■ Pila de botón (CR2450) × 1
Para saber cómo sustituirla, consulte “Sustitución de la pila de botón”.
Consulte P82


Panasonic
CR2450
3V

CONFIGURACIÓN DEL SISTEMA

Configuración del sistema


PC para la configuración
(Navegador web)
Información de fijación
Configuración del controlador
Controlador Panasonic (este dispositivo)
Información de fijación/ ajuste modificado
Conexión a un sistema anfitrión
Un sistema que aloja el dispositivo del usuario
PC para la configuración
Software de ajuste de la herramienta*1 (aplicación Windows)
Información de fijación/ajuste modificado (parcialmente)
PLC
PC para la gestión
Configuración de la herramienta
Resultado de la fijación
Configuración de la herramienta
Resultado de la fijación
Stand Alone Mode
Wireless Communication Mode
Comunicación por cable
Comunicación inalámbrica

---

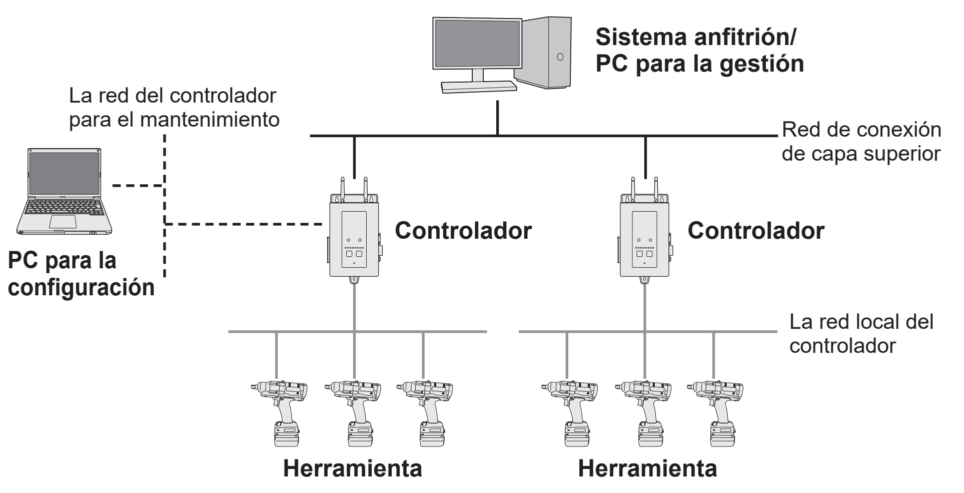
*1 El “software de ajuste de la herramienta” puede descargarse de nuestro sitio web.
Consulte P2

Configuraciones de red típicas

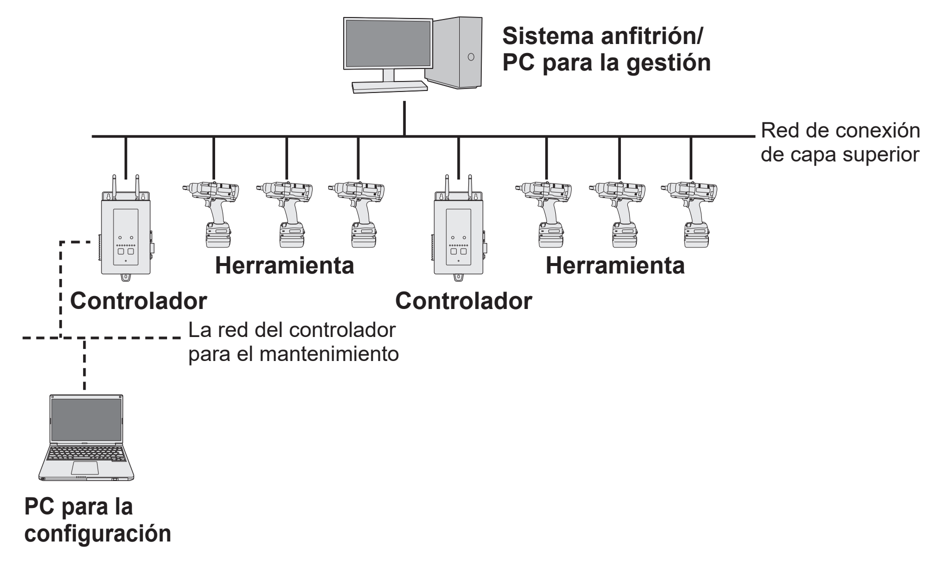
El controlador se puede utilizar en las 3 configuraciones siguientes.

■ No gestionar las direcciones IP de las herramientas

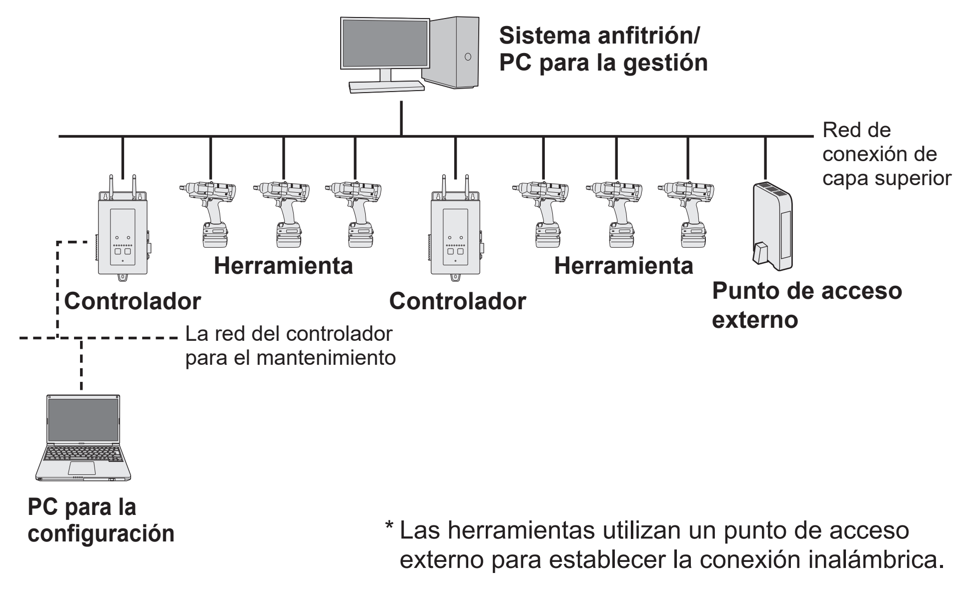
*** Asignación automática (utilizando el punto de acceso incorporado en el controlador)**


Sistema anfitrión/
PC para la gestión
La red del controlador para el mantenimiento
Red de conexión de capa superior
Controlador
Controlador
PC para la configuración
La red local del controlador
Herramienta
Herramienta

■ Gestión de las direcciones IP de las herramientas (utilizando el punto de acceso integrado en el controlador)


Sistema anfitrión/
PC para la gestión
Red de conexión de capa superior
Herramienta
Herramienta
Controlador
Controlador
La red del controlador para el mantenimiento
PC para la configuración

■ Reconocimiento de las direcciones IP de las herramientas (mediante puntos de acceso externos)


Sistema anfitrión/
PC para la gestión
Red de conexión de capa superior
Herramienta
Herramienta
Controlador
Controlador
Punto de acceso externo
La red del controlador para el mantenimiento
PC para la configuración

* Las herramientas utilizan un punto de acceso externo para establecer la conexión inalámbrica.

* Utilice el sistema dentro de su red local (sin conexión a Internet).

* Asegúrese de comprobar la configuración de la dirección IP para la red del controlador antes de empezar a utilizarlo. (Cambie el valor predeterminado si es necesario)

HERRAMIENTAS CONECTABLES/PRECAUCIONES PARA LA INSTALACIÓN

Lista de modelos de herramienta aplicables

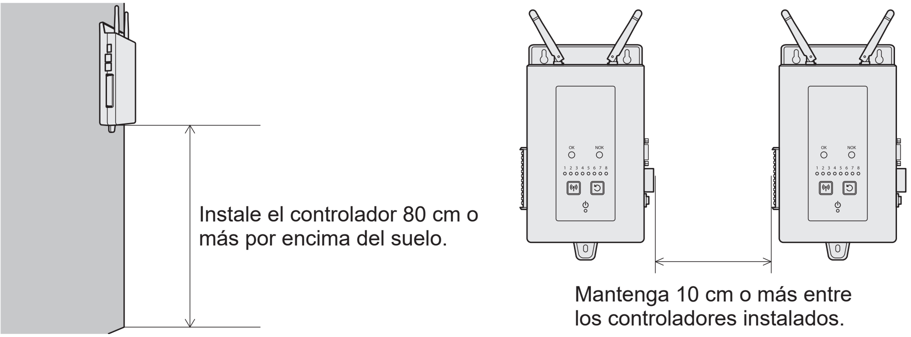
Modelos que pueden registrarse	EYFMH1WC, EYFMH2WC EYFMH1WP, EYFMH2WP

Precauciones para la instalación

Instale el controlador 80 cm o más por encima del suelo. Mantenga 10 cm o más entre los controladores instalados. (1 m o más recomendado)
Mantenga los obstáculos alejados de las antenas del controlador instalado.
El controlador posee 2 antenas de diversidad. Mantenga los obstáculos alejados de ambas antenas.

⚠ PRECAUCIÓN

Para una instalación segura, utilice tornillos de madera con un diámetro nominal de 3,5 mm a 4,1 mm.



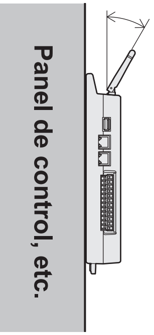
Instale el controlador 80 cm o más por encima del suelo.

Mantenga 10 cm o más entre los controladores instalados.

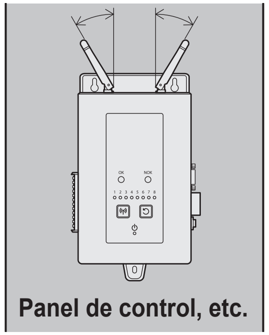
Ajuste los ángulos de las antenas si la comunicación es inestable.

* Especialmente en el caso del controlador instalado en un panel metálico, el ajuste de los ángulos de las antenas puede mejorar la estabilidad de la comunicación.

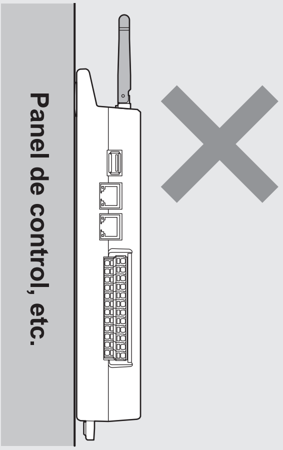
Incline las antenas de 30 a 45° con respecto a la pared.



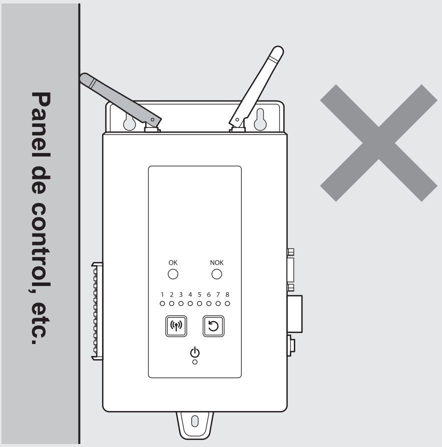
Incline las antenas de 30 a 45° hacia afuera, vistas desde la parte delantera.



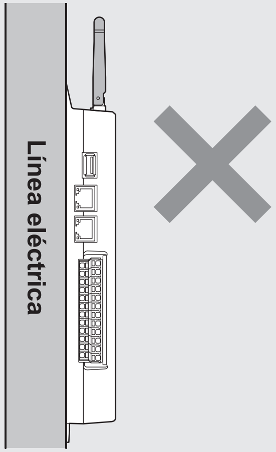
■ Evite la siguiente instalación.



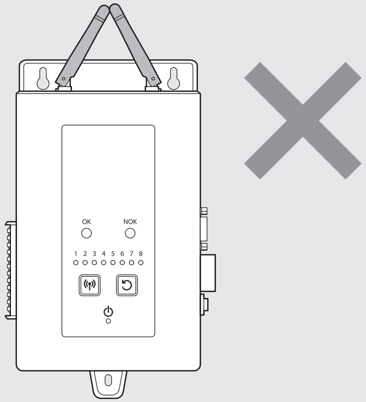
La antena está en paralelo con el panel de control (panel metálico) en la parte trasera.



La antena está en contacto con el panel de control (panel metálico).



El controlador se instala muy cerca de una línea eléctrica.

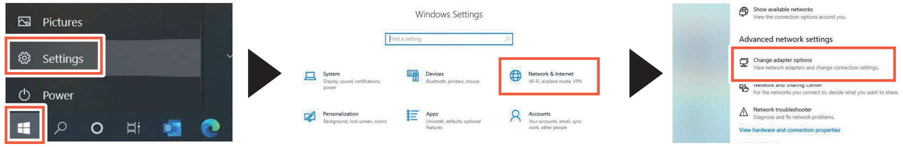


Las antenas están en contacto entre sí.

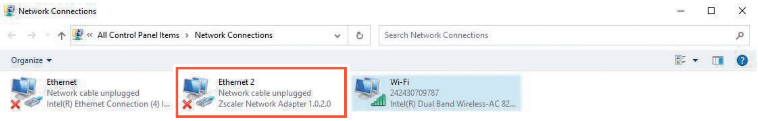
Ajustes de red en el PC para la configuración

Establezca los ajustes de red en el PC para la configuración como se indica a continuación cuando lo conecte y el controlador por primera vez.

1 **Haga clic en ⊞ en la parte inferior izquierda de la pantalla y haga clic en ⚙ (Settings) - [Network & Internet] - [Change adapter options].**


Pictures
Settings
Power
Windows Settings
Find a setting
System
Display, sound, notifications, power
Devices
Bluetooth, printers, mouse
Network & Internet
Wi-Fi, airplane mode, VPN
Personalization
Background, lock screen, colors
Apps
Uninstall, defaults, optional features
Accounts
Your accounts, email, sync, work, other people
Show available networks
View the connection options around you.
Advanced network settings
Change adapter options
View network adapters and change connection settings.
Network and Sharing Center
For the networks you connect to, decide what you want to share.
Network troubleshooter
Diagnose and fix network problems.
View hardware and connection properties

2 **Haga clic con el botón derecho en el dispositivo a conectar y haga clic en [Properties].**

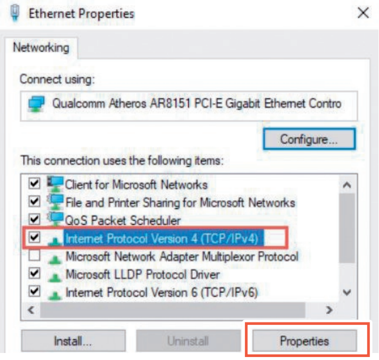

Network Connections
All Control Panel Items › Network Connections
Search Network Connections
Organize ▾

Ethernet
Network cable unplugged
Intel(R) Ethernet Connection (4) I...

Ethernet 2
Network cable unplugged
Zscaler Network Adapter 1.0.2.0

Wi-Fi
242430709787
Intel(R) Dual Band Wireless-AC 82...

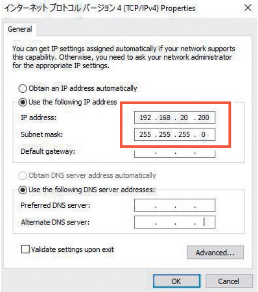
3 **Seleccione “Internet Protocol Version 4” y haga clic en [Properties].**


Ethernet Properties
Networking
Configure...
Install...
Uninstall
Properties

Connect using:
Qualcomm Atheros AR8151 PCI-E Gigabit Ethernet Contro

This connection uses the following items:
☑ Client for Microsoft Networks
☑ File and Printer Sharing for Microsoft Networks
☑ QoS Packet Scheduler
☑ Internet Protocol Version 4 (TCP/IPv4)
☐ Microsoft Network Adapter Multiplexor Protocol
☑ Microsoft LLDP Protocol Driver
☑ Internet Protocol Version 6 (TCP/IPv6)

4 **Ajuste la “IP address” y la “Subnet mask” como se indica a continuación.**


インターネット プロトコル バージョン 4 (TCP/IPv4) Properties
General
Advanced...
OK
Cancel

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address
IP address: 192 . 168 . 20 . 200
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .
○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server: . . .
Alternate DNS server: . . .
☐ Validate settings upon exit

IP address	192 . 168 . 20 . 200
Subnet mask	255 . 255 . 255 . 0

* Si ha cambiado la dirección IP del controlador tras la conexión inicial, habilite la conexión devolviendo los ajustes de red (dirección IP y máscara de subred) a su estado inicial en el PC para la configuración. En ese momento, configure la dirección IP de modo que el controlador y el PC para la configuración pertenezcan a la misma red.

* Anote y conserve los ajustes de red del PC para la configuración (dirección IP y máscara de subred) antes de modificarlos.

* Se recomienda dejar la puerta de enlace predeterminada sin especificar (en blanco).

Visualización de la pantalla de ajustes

Para configurar el controlador, acceda a él a través de un navegador web.
Visualice la pantalla de ajuste del controlador tal como se indica a continuación.

Cuando utilice el controlador por primera vez, retire la película protectora de la pila de botón.

1 **Encienda el controlador.**

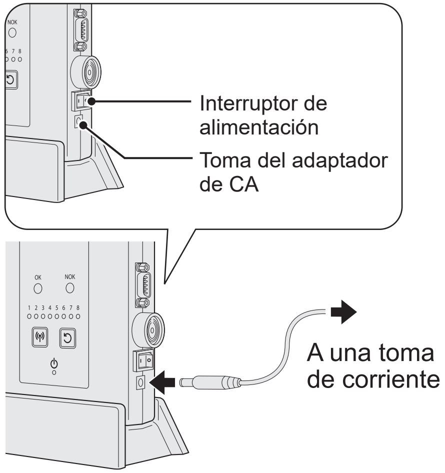
① Conecte el adaptador de CA al controlador y conecte el enchufe de alimentación a una toma de corriente.

② Encienda el Interruptor de alimentación del controlador.

* Tarda unas decenas de segundos en iniciarse.

* Durante la puesta en marcha, la lámpara de fijación OK, la lámpara de fijación NOK y las lámparas de comunicación (del N.º 1 al N.º 8) parpadean simultáneamente.

* No conecte cables LAN.

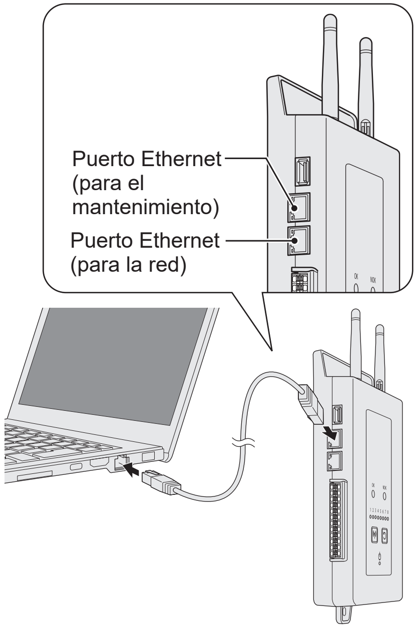

Interruptor de alimentación
Toma del adaptador de CA
OK
NOK
1 2 3 4 5 6 7 8
A una toma de corriente

2 **Conecte el controlador al PC para la configuración con un cable LAN.**

① Conecte un cable LAN al puerto Ethernet del controlador.

* El controlador tiene 2 puertos Ethernet: uno para el mantenimiento y uno para las redes.
Utilice el de mantenimiento para la primera conexión.

② Conéctese al PC para la configuración con el cable LAN.


Puerto Ethernet (para el mantenimiento)
Puerto Ethernet (para la red)

3 Inicie un navegador web en el PC para la configuración y acceda al controlador.

① Inicie un navegador web en el PC para la configuración. (Se recomienda Microsoft Edge)

② Introduzca la dirección IP del controlador en la barra de direcciones del navegador web.

* La dirección IP predeterminada para el puerto Ethernet (para mantenimiento) es “192.168.20.10”.

> En la barra de direcciones del navegador web, introduzca “http://192.168.20.10/controller”
> * Introducir solo “192.168.20.10/controller” también permite el acceso.

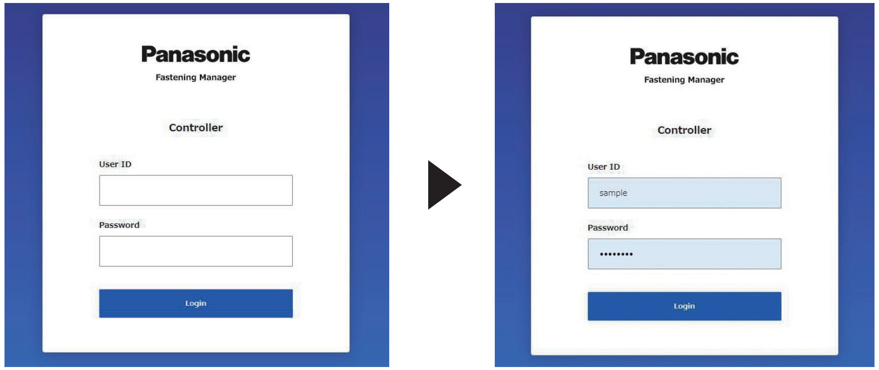
* Para obtener información sobre cómo acceder a través del puerto Ethernet (para la red), consulte “Conexión a través de la red”. **Consulte P21**

* La dirección IP también debe ajustarse en el PC para la configuración.

③ En la pantalla de inicio de sesión que aparece, introduzca la ID de usuario y la contraseña.

* La ID de usuario y la contraseña para el inicio de sesión inicial se muestran a continuación.

④ Se muestra la página superior (la página inicial de la pantalla de ajustes).


Panasonic
Fastening Manager
Controller
User ID
Password
Login
Panasonic
Fastening Manager
Controller
Login

User ID: sample
Password: ••••••••

ID de usuario y contraseña para el inicio de sesión inicial

Inicie sesión con la ID de usuario y la contraseña siguientes.

- **ID de usuario:** **root**
- **Contraseña:** **abcABC123**

* El tipo de cuenta para el inicio de sesión inicial es “default”.
Para los tipos de cuenta, consulte “Tipos de cuenta (Autoridades)”. **Consulte P19**

* Solamente es posible la creación de la cuenta cuando inicia sesión con la ID de usuario y la contraseña anteriores. Cree una nueva cuenta antes de iniciar el uso.

* Por seguridad, se recomienda cambiar la contraseña anterior después del inicio de sesión inicial.

Tipos de cuenta (Autoridades)

A continuación se indican los tipos de cuenta. Utilícelas de acuerdo con las aplicaciones.

Tipo de cuenta	Función
Predeterminado	• Para el inicio de sesión inicial. **Consulte P18** Añadir o cambiar una cuenta de usuario.
Administrator	• Visualización del historial de fijación. • Configuración del controlador. • Configuración de herramientas. • Añadir o cambiar una cuenta de usuario. * Cree al menos una cuenta de administrador.
General	• Visualización del historial de fijación (incluyendo la visualización del monitor de trabajo).

Se pueden registrar hasta 10 cuentas.
De este modo, más de un operador puede iniciar sesión simultáneamente.

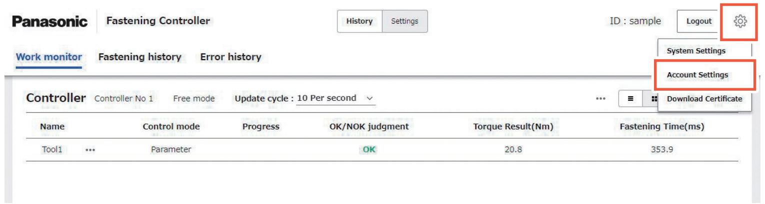
* Solo una cuenta puede iniciar sesión como administrador al mismo tiempo.
Cuando se intentan realizar múltiples accesos, la última sesión tiene prioridad.

Creación de una cuenta de usuario

Cree una nueva cuenta antes de iniciar el uso.

1 En la página superior (la página inicial de la pantalla de ajustes), haga clic en la tecla de opción de la parte superior derecha y seleccione “Account Settings”.

Se visualiza la pantalla “Account Settings”.

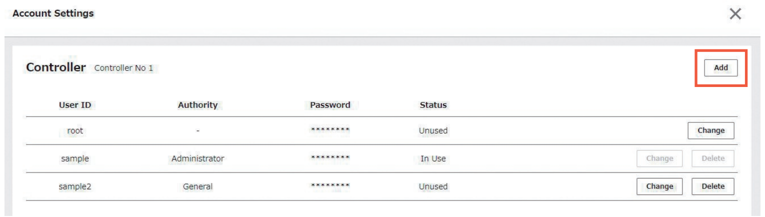

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 •••	Parameter		OK	20.8	353.9

2 En la pantalla “Account Settings”, haga clic en [Add].

Se visualiza la pantalla “Add account”.

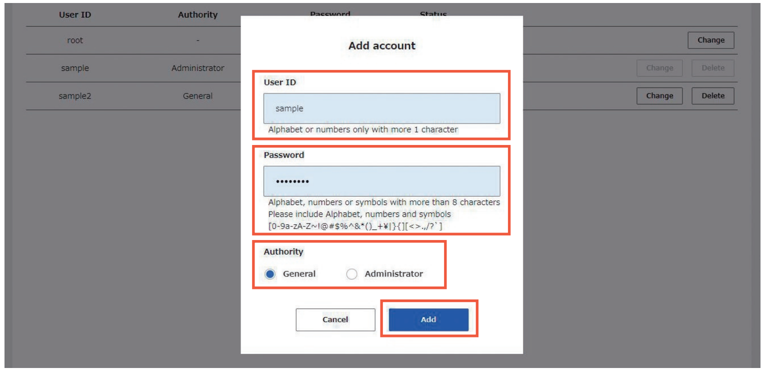
- Haga clic en [Change] para cambiar la cuenta y [Delete] para eliminarla.


Account Settings
Controller
Controller No 1
Add

User ID	Authority	Password	Status	
root	-	********	Unused	Change
sample	Administrator	********	In Use	Change Delete
sample2	General	********	Unused	Change Delete

3 Introduzca la “User ID” y la “Password”, seleccione “Authority” y haga clic en [Add].

* Cree una cuenta de administrador para configurar las herramientas.
* Para una contraseña, utilice siempre una combinación de 3 o más tipos: mayúsculas, minúsculas, números y símbolos.



User ID	Authority	Password	Status	
root	-			Change
sample	Administrator			Change Delete
sample2	General			Change Delete

Add account

User ID: sample
Alphabet or numbers only with more 1 character

Password: •••••••••
Alphabet, numbers or symbols with more than 8 characters
Please include Alphabet, numbers and symbols
[0-9a-zA-Z~!@#$%^&*()_+¥|}{][<>.,/?`]

Authority: ● General ○ Administrator

[Referencia] Si pierde la ID de usuario o la contraseña

■ Cuenta general

[Método 1] Inicie sesión como administrador y realice cambios en la cuenta correspondiente.
* Un usuario general no puede cambiar la ID del usuario y la contraseña y debe solicitar a un administrador que los cambie.

[Método 2] Inicie sesión con una cuenta de administrador recién creada y realice cambios en la cuenta en cuestión.
* Inicie sesión con la ID del usuario y la contraseña del inicio de sesión inicial y cree una nueva cuenta de administrador. **Consulte P18**

■ Cuenta de administrador

A) Cuando se han creado varias cuentas de administrador

[Método 1] Inicie sesión con otra cuenta de administrador y realice cambios en la cuenta en cuestión.

[Método 2] Inicie sesión con una cuenta de administrador recién creada y realice cambios en la cuenta en cuestión.
* Inicie sesión con la ID del usuario y la contraseña del inicio de sesión inicial y cree una nueva cuenta de administrador. **Consulte P18**

[Método 3] Inicialice los ajustes si ha perdido las ID y las contraseñas de todas las cuentas de administrador. **Consulte P79**

B) Cuando solo se ha creado una cuenta de administrador

[Método 1] Inicie sesión con una cuenta de administrador recién creada y realice cambios en la cuenta en cuestión.
* Inicie sesión con la ID del usuario y la contraseña del inicio de sesión inicial y cree una nueva cuenta de administrador. **Consulte P18**

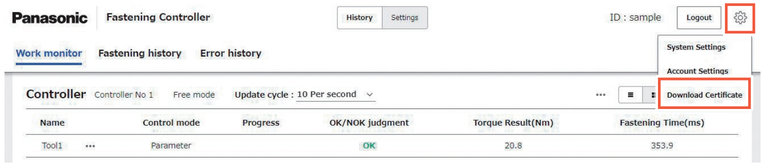
[Método 2] Inicialice los ajustes si ha perdido las ID y las contraseñas de todas las cuentas de administrador. **Consulte P79**

Obtener un certificado

Es necesario un certificado para acceder al controlador a través del puerto Ethernet (para la red). Puede obtener un certificado como se indica a continuación.

1 En la página superior (la página inicial de la pantalla de ajustes), haga clic en la tecla de opción de la parte superior derecha y seleccione “Download Certificate”.

Se ha descargado un dato de certificado en el PC para la configuración.



Panasonic Fastening Controller

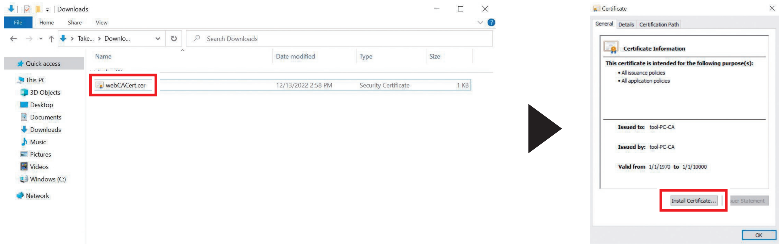
ID : sample

Controller Controller No 1 Free mode Update cycle : 10 Per second

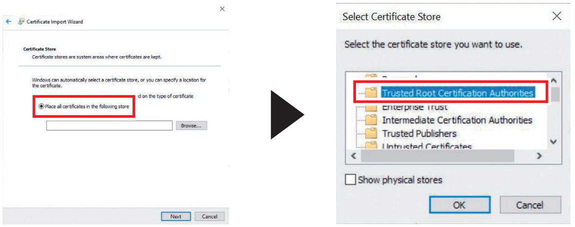
Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	Parameter		OK	20.8	353.9

2 Instale el certificado en el “PC para la configuración utilizado para acceder al controlador a través de la red”.

① Haga doble clic en el dato del certificado descargado y seleccione “Install Certificate”.



② Seleccione “Place all certificates in the following store” y luego seleccione “Trusted Root Certification Authorities”.



Certificate Import Wizard

Certificate Store
Certificate stores are system areas where certificates are kept.

Windows can automatically select a certificate store, or you can specify a location for the certificate.

● Place all certificates in the following store

Select Certificate Store

Select the certificate store you want to use.

☐ Show physical stores

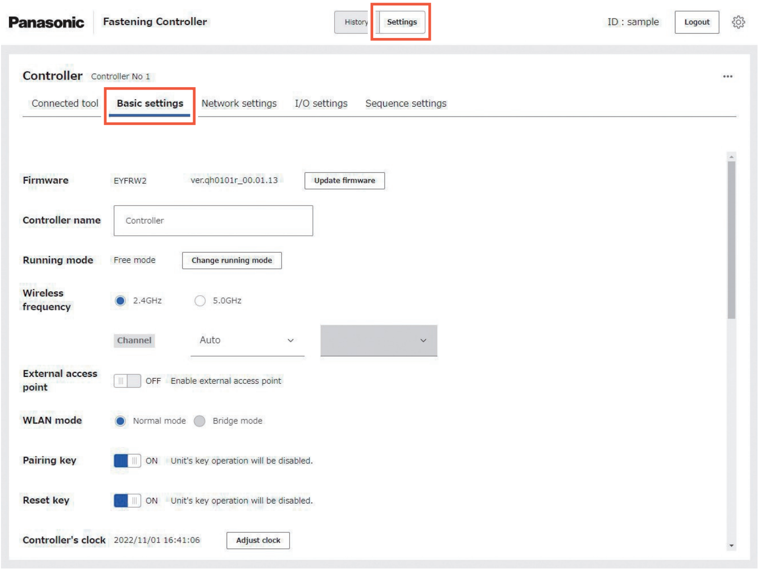
Conexión a través de la red

En la barra de direcciones del navegador web, introduzca “https://XXX.XXX.XXX.XXX/controller” para conectar el controlador a través del puerto Ethernet (para red).
* “XXX.XXX.XXX.XXX” es una dirección IP.
* La dirección IP predeterminada es “192.168.0.10”. Si ha cambiado la dirección predeterminada, introduzca la que ha cambiado. **Consulte P26**

CONFIGURACIÓN DEL CONTROLADOR

Ajustes básicos

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Basic settings”.
Puede configurar el controlador.

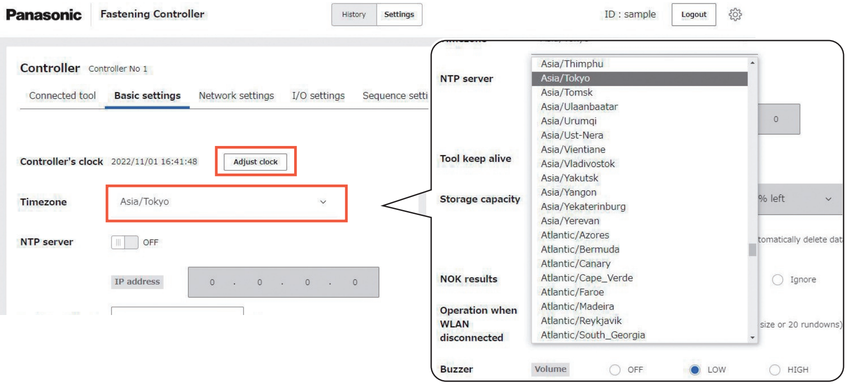

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name Controller
Running mode Free mode
Wireless frequency ● 2.4GHz ○ 5.0GHz
Channel Auto
External access point OFF Enable external access point
WLAN mode ● Normal mode ○ Bridge mode
Pairing key ON Unit's key operation will be disabled.
Reset key ON Unit's key operation will be disabled.
Controller's clock 2022/11/01 16:41:06

Ajuste de la hora

Seleccione “Timezone” y haga clic en [Adjust clock].
La hora se actualiza.

- La hora no está ajustada todavía en el momento del envío. Asegúrese de ajustar la hora cuando utilice el controlador por primera vez.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence setti
Adjust clock
Asia/Thimphu
Asia/Tokyo
Asia/Tomsk
Asia/Ulaanbaatar
Asia/Urumqi
Asia/Ust-Nera
Asia/Vientiane
Asia/Vladivostok
Asia/Yakutsk
Asia/Yangon
Asia/Yekaterinburg
Asia/Yerevan
Atlantic/Azores
Atlantic/Bermuda
Atlantic/Canary
Atlantic/Cape_Verde
Atlantic/Faroe
Atlantic/Madeira
Atlantic/Reykjavik
Atlantic/South_Georgia
Tool keep alive
Storage capacity
% left
tomatically delete dat
NOK results
Ignore
Operation when WLAN disconnected
size or 20 rundowns)

Controller's clock 2022/11/01 16:41:48
Timezone Asia/Tokyo
NTP server OFF
IP address 0 . 0 . 0 . 0
Buzzer Volume ○ OFF ● LOW ○ HIGH

* Si utiliza un servidor NTP, introduzca la dirección IP.

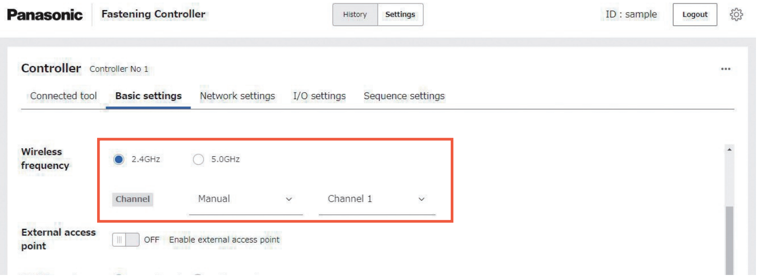
Ajuste de la frecuencia de radio y del canal

Puede establecer la frecuencia a utilizar.
Seleccione “2.4GHz” o “5GHz” y, a continuación, el canal que desea utilizar.

* Los canales seleccionables difieren entre “2.4GHz” y “5GHz”.

* Puede ajustar “Auto Channel”.
El controlador selecciona automáticamente los canales disponibles en el entorno circundante cuando se activa.
El ajuste puede ser efectivo contra interferencias de radio.

* Cuando instale múltiples controladores uno cerca de otro, no establezca canales adyacentes.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Wireless frequency ● 2.4GHz ○ 5.0GHz
Channel Manual Channel 1
External access point OFF Enable external access point

Elementos de ajuste

Firmware

Se muestra la versión de firmware del controlador.
Haga clic en [Update firmware] para actualizar el firmware.
Para saber cómo actualizar, consulte “Actualización del firmware”. **Consulte P81**

Controller name

Puede registrar el nombre del controlador.
Use un máximo de 32 caracteres alfanuméricos.
[Predeterminado] Controller
[Rango de ajuste] Hasta 32 caracteres alfanuméricos

* Para los símbolos, solo se pueden utilizar “-” (guión), “_” (guión bajo) y “ ” (espacio de media anchura).

Running mode

Seleccione el modo de funcionamiento del controlador.
[Predeterminado] Free mode
[Rango de ajuste] Free mode / Repeat mode (Basic mode / Sequence mode) / External control mode

Wireless frequency

Seleccione el canal de frecuencia que se utilizará para la comunicación inalámbrica.
[Predeterminado] 2.4GHz
[Rango de ajuste] 2.4GHz (Auto / Channel 1 a 13) / 5GHz (Auto / Channel 36, 40, 44, 48)

External access point

Puede habilitar la comunicación a través de un punto de acceso externo. **Consulte P63**

[Predeterminado] OFF (deshabilitado)
[Rango de ajuste] OFF (deshabilitado)/ON (habilitado)

* WLAN mode: Este ajuste es para el funcionamiento sin utilizar un punto de acceso externo.
Normal mode: cuando no se gestionan las direcciones IP de la herramienta (asignación automática)
Bridge mode: cuando se gestionan (especifican) las direcciones IP de la herramienta.

Pairing key

Puede habilitar la tecla Emparejamiento.

[Predeterminado] ON (habilitado)
[Rango de ajuste] OFF (deshabilitado)/ON (habilitado)

Reset key

Puede habilitar la tecla Reiniciar.

[Predeterminado] ON (habilitado)
[Rango de ajuste] OFF (deshabilitado)/ON (habilitado)

Controller's clock

Ajuste el reloj del controlador.
Haga clic en [Adjust clock] para actualizar la hora.

Timezone

Puede ajustar la zona horaria deseada al ajustar el reloj del controlador.

NTP server

Establezca un servidor NTP si utiliza el ajuste automático del reloj.

Tool keep alive

Establezca el intervalo de tiempo en el que el controlador comprueba la disponibilidad de las herramientas en el modo de comunicación inalámbrica.
Las herramientas que no responden se detectan como fuera de línea y se desconectan.

[Predeterminado] 30 s
[Rango de ajuste] de 10 s a 3600 s

Storage capacity

Habilita o deshabilita la notificación de baja capacidad de almacenamiento y ajusta el comportamiento en caso de escasez de capacidad.

[Predeterminado] Notificación -OFF,
Funcionamiento cuando la capacidad es insuficiente -Automatically delete data
[Rango de ajuste] Notificación -OFF/ON (capacidad restante 10/20/30/40/50%)
Funcionamiento cuando la capacidad es insuficiente -Suspend operation / Automatically delete data

El ajuste predeterminado es “Automatically delete data”.
Piense bien cómo manejar los datos antes de seleccionar “Suspend operation” según sea necesario.

NOK results

Seleccione cómo manejar los resultados de los fallos de fijación.

[Predeterminado] Store data only
[Rango de ajuste] Report to system / Store data only / Ignore

Operation when WLAN disconnected

Seleccione el comportamiento en caso de interrupción temporal de la comunicación inalámbrica.

[Predeterminado] Suspend tool
[Rango de ajuste] Suspend tool / Enable fastening (Until batch size or 20 rundowns)
Para más información, consulte “COMPORTAMIENTO DE LAS HERRAMIENTAS CON LA COMUNICACIÓN INALÁMBRICA DESCONECTADA”. **Consulte P70**

Buzzer

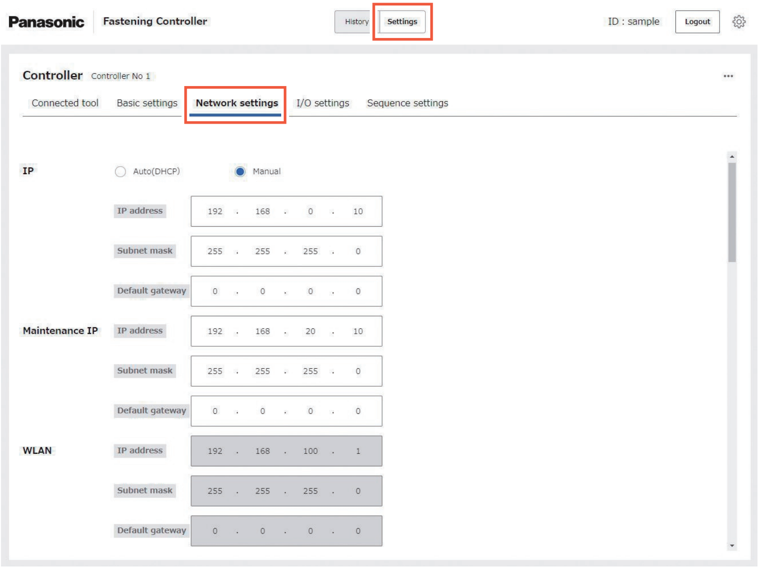
Seleccione el volumen y el significado del zumbador.

[Predeterminado] Volume - LOW,
Beep - Todo marcado
[Rango de ajuste] Volume - OFF/LOW/HIGH,
Beep - Marque o desmarque cada elemento

OPERACIÓN

Ajustes de red

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Network settings”.
Puede realizar los ajustes de red del controlador.



IP ○ Auto(DHCP) ● Manual
IP address 192 . 168 . 0 . 10
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0
Maintenance IP IP address 192 . 168 . 20 . 10
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0
WLAN IP address 192 . 168 . 100 . 1
Subnet mask 255 . 255 . 255 . 0
Default gateway 0 . 0 . 0 . 0

Elementos de ajuste

IP

Establezca la dirección IP del Puerto Ethernet (para la red).

[Predeterminado] Manual
[Rango de ajuste] Auto (DHCP) / Manual

* Para “Manual”

[Predeterminado] IP address - 192.168.0.10
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

Maintenance IP

Establezca la dirección IP del Puerto Ethernet (para el mantenimiento).

[Predeterminado] IP address - 192.168.20.10
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

WLAN

Ajuste la dirección IP (en el lado del controlador) para la comunicación inalámbrica con las herramientas.

[Predeterminado] IP address - 192.168.100.1
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

Atlas Open Protocol

Configure los parámetros relacionados con el Protocolo Abierto Atlas.
Para más detalles, consulte “Conexión a través de la Comunicación de Protocolo Abierto”. **Consulte P57**

Access point

Establezca el punto de acceso interno para la comunicación inalámbrica con las herramientas.

[Predeterminado] SSID - Número de modelo del controlador-Dirección MAC
Security - WPA2
[Rango de ajuste] SSID - Un máximo de 32 caracteres alfanuméricos
Security - WPA2

External access point

Establezca el punto de acceso externo que desea utilizar.

[Predeterminado] SSID - En blanco
Security - En blanco
Password - En blanco
[Rango de ajuste] SSID - Un máximo de 32 caracteres alfanuméricos
Security - Abierto/WPA2
Password - De 8 a 63 caracteres alfanuméricos

* Para los símbolos, solo pueden utilizarse “"”, “¥”, “,” y “‘ (comillas inversas)”.
* La opción sólo está habilitada cuando “External access point” se ha ajustado en “ON” en el ajuste básico.

- Para las direcciones IP para “IP” y “Maintenance IP”, no utilice la misma subred. (Cuando configure un valor predeterminado (255.255.255.0) en “Subnet mask”, ajuste valores diferentes en la parte correspondiente a “192.168.0” o “192.168.20”).

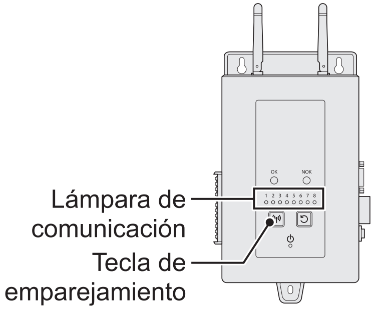
Inicio del modo Emparejamiento en el controlador

Puede poner el controlador en el modo de emparejamiento mediante “Uso de la tecla en la unidad” o “Ajuste en la pantalla de ajustes”.
Durante 2 minutos del modo de emparejamiento, inicie el modo de emparejamiento en una herramienta dentro de la cobertura para establecer automáticamente el emparejamiento.
Si el emparejamiento no se establece dentro del tiempo, el modo de emparejamiento finalizará.

* Después de intentar iniciar el emparejamiento, puede pasar algún tiempo hasta que el controlador entre en el modo de emparejamiento.

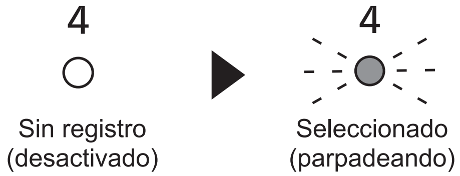
■ Uso de la tecla en la unidad

Utilice la tecla Emparejamiento en la unidad del controlador.
Seleccione la lámpara de comunicación del número sin registro (luz apagada) y mantenga pulsada la tecla de emparejamiento para acceder al modo de emparejamiento.
Consulte el siguiente procedimiento para obtener más detalles.

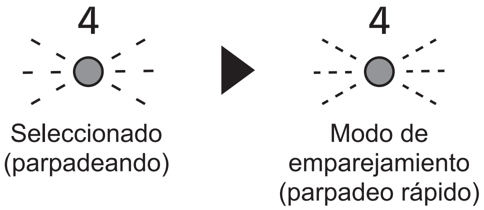

Lámpara de comunicación
Tecla de emparejamiento

(Para registrar la herramienta N.º 4)

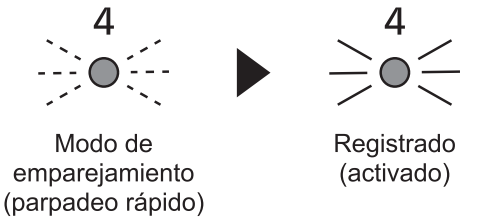
1 **Pulse la tecla Emparejamiento en el controlador 4 veces para seleccionar la herramienta N.º 4.**
La lámpara de comunicación N.º 4 parpadea.


4
Sin registro (desactivado)
4
Seleccionado (parpadeando)

2 **Mientras el N.º 4 está seleccionado, mantenga pulsada la tecla Emparejamiento en el controlador para entrar en el modo de emparejamiento de la herramienta N.º 4.**
En el modo de emparejamiento, la Lámpara de comunicación N.º 4 comienza a parpadear rápidamente.

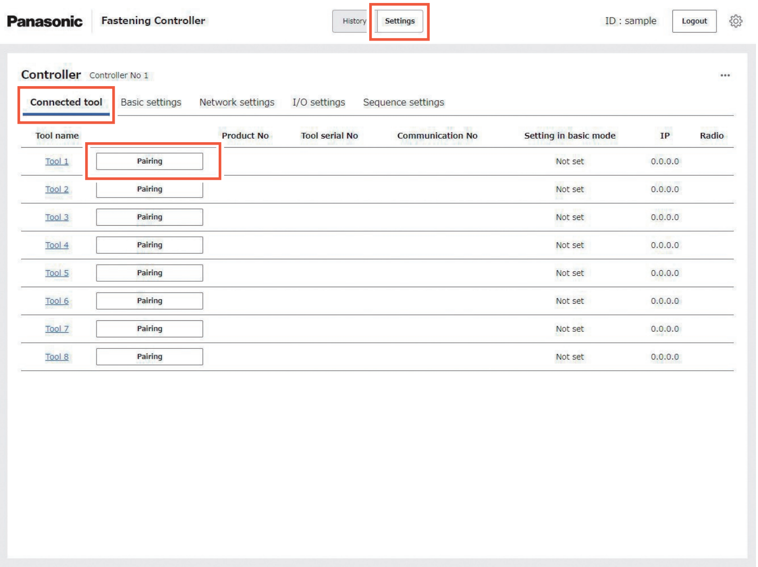

4
Seleccionado (parpadeando)
4
Modo de emparejamiento (parpadeo rápido)

3 **Opere la herramienta N.º 4 para establecer el emparejamiento.**
La lámpara de comunicación N.º 4 permanece encendida.
Para saber cómo operar la herramienta, consulte “Inicio del modo de emparejamiento en una herramienta”. **Consulte P30**


4
Modo de emparejamiento (parpadeo rápido)
4
Registrado (activado)

■ Ajuste en la pantalla de ajustes

En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.
En la pantalla “Connected tool”, haga clic en [Pairing] del número de herramienta deseado.
Después de que el controlador entre en el modo de emparejamiento, realice el procedimiento descrito en “Inicio del modo de emparejamiento en una herramienta”.
Consulte P30


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Pairing				Not set	0.0.0.0	
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

<Para referencia > Sustituir con una herramienta de recambio

Cuando sustituya una herramienta emparejada defectuosa por una nueva con el mismo número de modelo, cancele el emparejamiento **Consulte P30** y, a continuación, realice el emparejamiento **Consulte P28** para que los parámetros de fijación y otros ajustes puedan transferirse automáticamente.

* Para emparejar con una herramienta con un número de producto diferente, cancele el emparejamiento para borrar la información de emparejamiento actual antes de emparejar con ella. **Consulte P34**

Pantalla después de completar el emparejamiento

Después de completar el emparejamiento, si la pantalla de ajuste no muestra la información de la herramienta emparejada, realice la actualización de la visualización en la pantalla de ajuste.

* En el “Bridge mode” o cuando “External access point” está habilitado, ajuste la dirección IP de la herramienta antes de iniciar el registro de emparejamiento.

Inicio del modo de emparejamiento en una herramienta

Ponga el controlador en el modo de emparejamiento antes de iniciar el modo de emparejamiento en una herramienta.

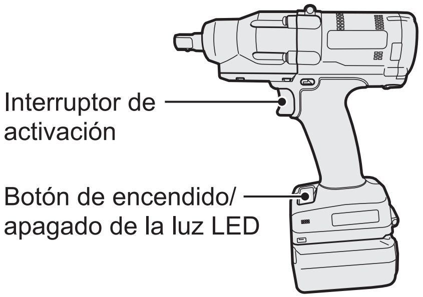
Procedimiento

1 **Coloque la batería. Mientras mantiene pulsado el botón de activación/desactivación de la luz LED, tire del interruptor de activación.**

La herramienta entra en el modo de emparejamiento.
La comunicación inalámbrica se establece automáticamente y se completa el registro de emparejamiento.

* Para más información, consulte el Manual de instrucciones de la herramienta.

* Si el emparejamiento falla, cancele el emparejamiento en el controlador y, a continuación, vuelva a intentarlo.

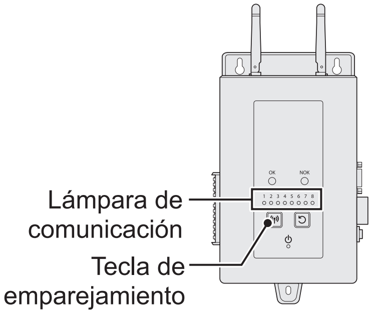

Interruptor de activación
Botón de encendido/ apagado de la luz LED

Cancelación del emparejamiento

Puede cancelar el registro de emparejamiento en el controlador mediante “Uso de la tecla en la unidad” o “Ajuste en la pantalla de ajustes”.

Uso de la tecla en la unidad

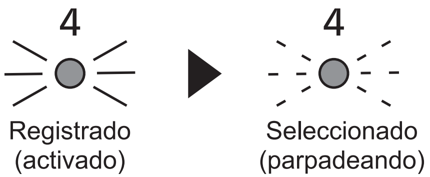
Utilice la tecla Emparejamiento en la unidad del controlador.
Seleccione la lámpara de comunicación del número de herramienta con la que desea cancelar el registro (luz encendida) y mantenga pulsada la tecla de emparejamiento para cancelar el registro.
Consulte el siguiente procedimiento para obtener más detalles.


Lámpara de comunicación
Tecla de emparejamiento

(Para cancelar la herramienta N.º 4)

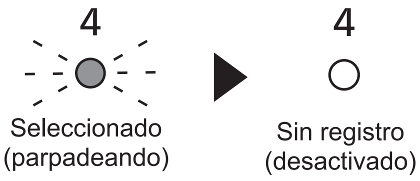
1 **Pulse la tecla Emparejamiento en el controlador 4 veces para seleccionar la herramienta N.º 4.**

La lámpara de comunicación N.º 4 parpadea.


4
Registrado (activado)
4
Seleccionado (parpadeando)

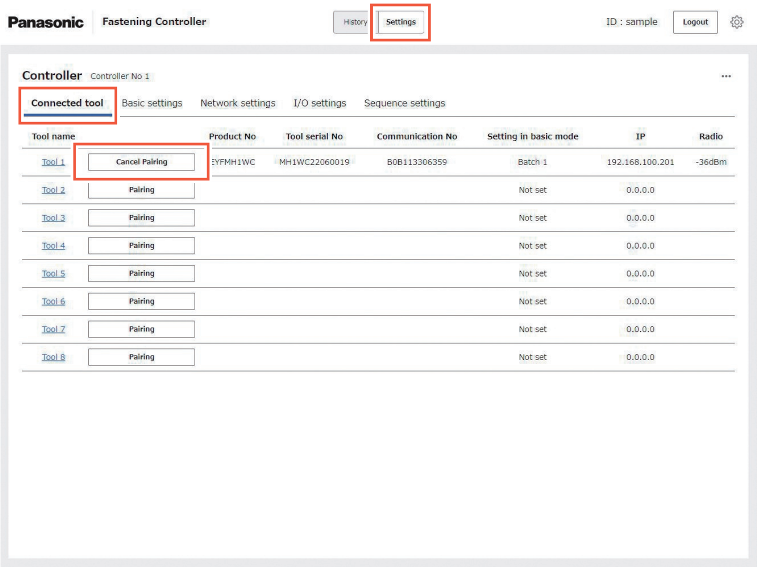
2 **Mientras el N.º 4 está seleccionado, mantenga pulsada la tecla Emparejamiento en el controlador para cancelar el registro de emparejamiento de la herramienta N.º 4.**

Cuando se cancela el emparejamiento, la lámpara de comunicación N.º 4 deja de parpadear y se apaga.


4
Seleccionado (parpadeando)
4
Sin registro (desactivado)

Ajuste en la pantalla de ajustes

En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.
En la pantalla “Connected tool”, haga clic en [Cancel Pairing] del número de herramienta deseado.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

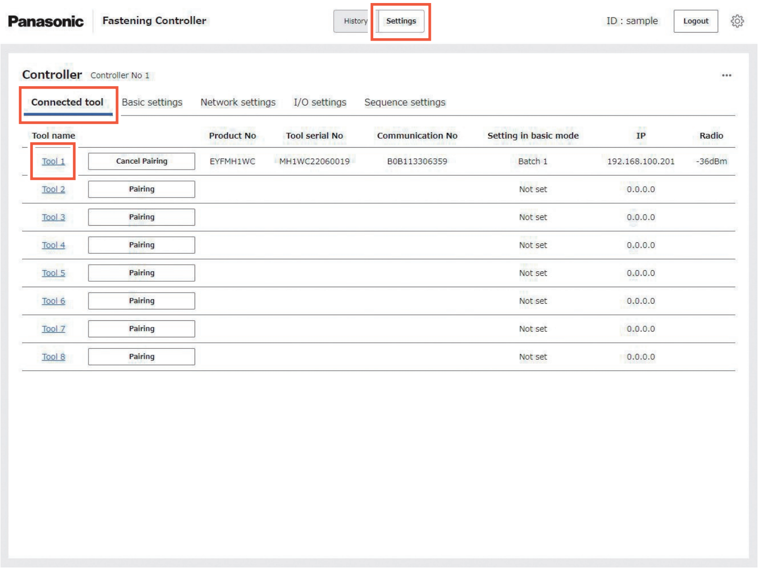
Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

* Si el controlador no puede comunicarse con la herramienta debido a que la herramienta está apagada o a cualquier otro motivo, marque [Force to unpair] en el cuadro de diálogo de confirmación de cancelación del emparejamiento.

CONFIGURACIÓN DE UNA HERRAMIENTA

Visualización de la pantalla Herramienta

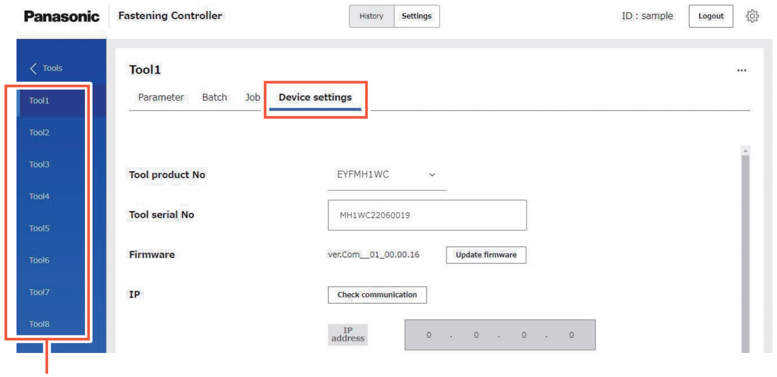
En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.
En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.
Se visualiza la pantalla para el número de herramienta.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

Visualización de la pantalla de ajustes de la herramienta

Desde la pestaña “Device settings” de la pantalla correspondiente al número de herramienta, puede realizar los ajustes básicos de la herramienta e introducir parámetros comunes.
* Para cambiar la herramienta, seleccione la deseada en la lista de herramientas.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Update firmware
Check communication

Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16
IP
IP address: 0 . 0 . 0 . 0

Lista de herramientas

Elementos de ajuste de la herramienta

Tool product No

Seleccione el número de producto de la herramienta.

[Predeterminado] En blanco
[Rango de ajuste] Seleccionable desde el menú desplegable

* Se selecciona automáticamente si se establece el emparejamiento de antemano.
* El número de producto de la herramienta no se puede cambiar después del emparejamiento. Cancele el emparejamiento y, a continuación, cámbielo.

Tool serial No

Puede ajustar y visualizar la identificación de la unidad de la herramienta.

[Predeterminado] 5 dígitos de identificación del modelo + 8 dígitos del número de serie (2 dígitos del año de fabricación + 2 dígitos del mes + 4 dígitos del lote de producción)
[Rango de ajuste] De 13 a 16 caracteres alfanuméricos

* Es posible que el número de modelo no se reconozca correctamente si se cambia la información.
No la cambie a menos que lo requiera la regla de administración.

Firmware

Se muestra la versión de firmware de la parte de comunicación de la herramienta.
Haga clic en [Update firmware] para actualizar el firmware.
Para saber cómo actualizar, consulte “Actualización del firmware”. **Consulte P81**

IP

Ajuste la dirección IP (en el lado de la herramienta) para la comunicación inalámbrica con las herramientas.

[Predeterminado] IP address - 192.168.100.201 (Herramienta 1) a 208 (Herramienta 8)
Subnet mask - 255.255.255.0
Default gateway - 0.0.0.0

* Todos se convierten en “0.0.0.0” en el Bridge mode o cuando “External access point” está habilitado.

Tool’s clock

Se visualiza el reloj de la herramienta. Haga clic en [Adjust to controller] para ajustar la hora.

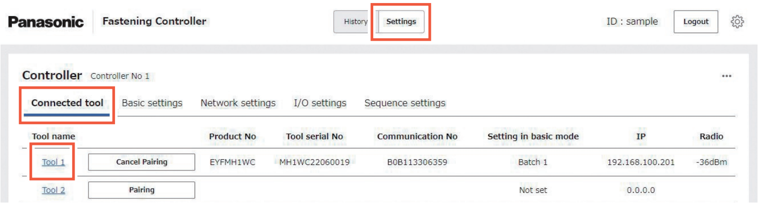
- Para otros elementos de ajuste, consulte el Manual de instrucciones de la herramienta.

Eliminación de la información de registro

Para detener el uso de la herramienta o emparejar una herramienta con un número de producto diferente, borre la información de emparejamiento.
* Cancele el emparejamiento de antemano.

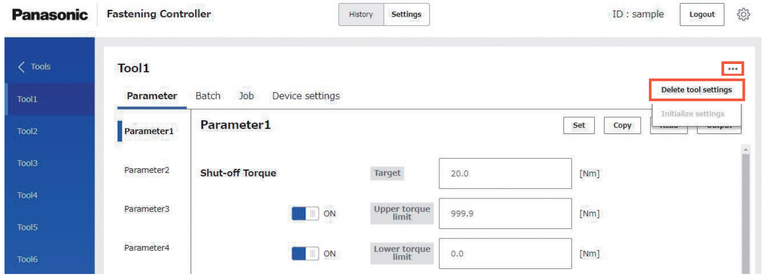
1 **En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.**
Aparece la pantalla “Connected tool”.

2 **En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.**
Se visualiza la pantalla para el número de herramienta.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Haga clic en ··· (tecla de opción de la herramienta) y, a continuación, [Delete tool settings].**
Se visualiza la pantalla “Delete tool settings”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Set
Copy
Parameter1
Parameter2
Parameter3
Parameter4

Tool1

Parameter1

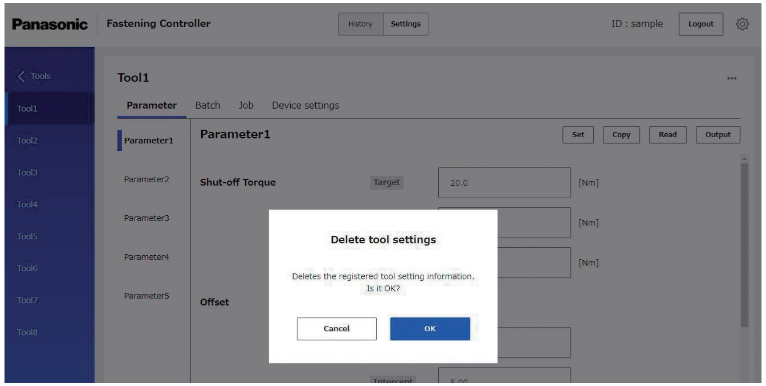
Shut-off Torque

Target 20.0 [Nm]

ON Upper torque limit 999.9 [Nm]

ON Lower torque limit 0.0 [Nm]

4 **En la pantalla “Delete tool settings”, haga clic en [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
Batch
Job
Device settings
Set
Copy
Read
Output
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Shut-off Torque
Target
Offset
Intercept
Cancel
OK

Delete tool settings

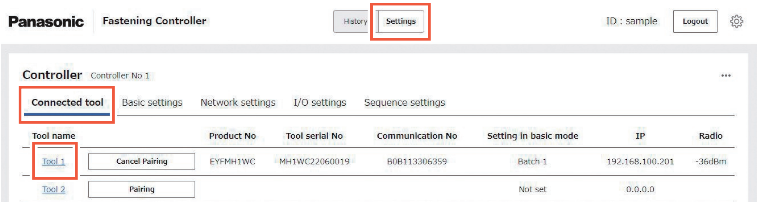
Deletes the registered tool setting information.
Is it OK?

Restablecer los ajustes de fábrica

Puede restaurar una herramienta a sus ajustes de fábrica.
* Al restablecer se cancela el emparejamiento.

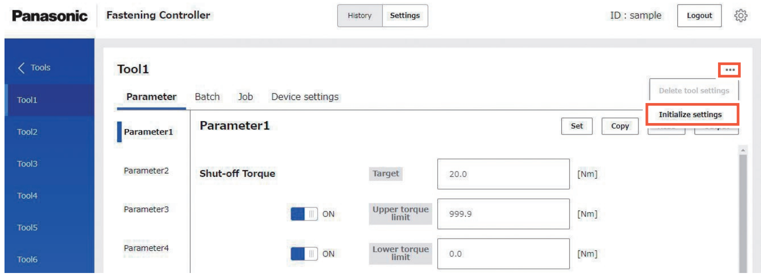
1 **En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.**
Aparece la pantalla “Connected tool”.

2 **En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.**
Se visualiza la pantalla para el número de herramienta.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	

3 **Haga clic en ··· (tecla de opción de la herramienta) y, a continuación, [Initialize settings].**
Se visualiza la pantalla “Initialize settings”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Parameter
Batch
Job
Device settings
Delete tool settings
Initialize settings
Set
Copy
Parameter1
Parameter2
Parameter3
Parameter4

Tool1

Parameter1

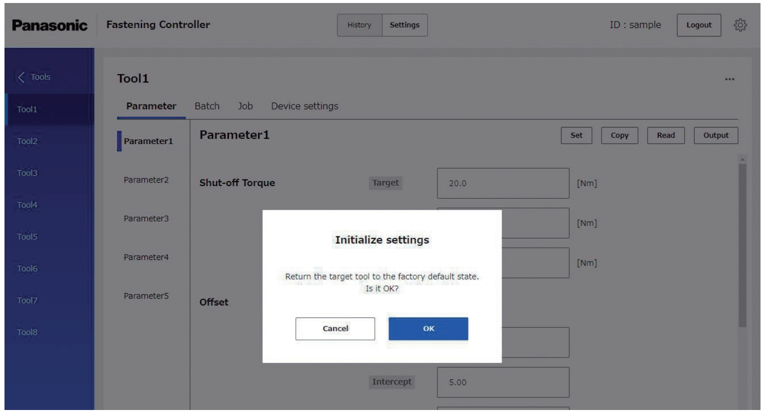
Shut-off Torque

Target 20.0 [Nm]

ON Upper torque limit 999.9 [Nm]

ON Lower torque limit 0.0 [Nm]

4 **En la pantalla “Initialize settings”, haga clic en [OK].**


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Parameter
Batch
Job
Device settings
Set
Copy
Read
Output
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Shut-off Torque
Target
Offset
Intercept
Cancel
OK

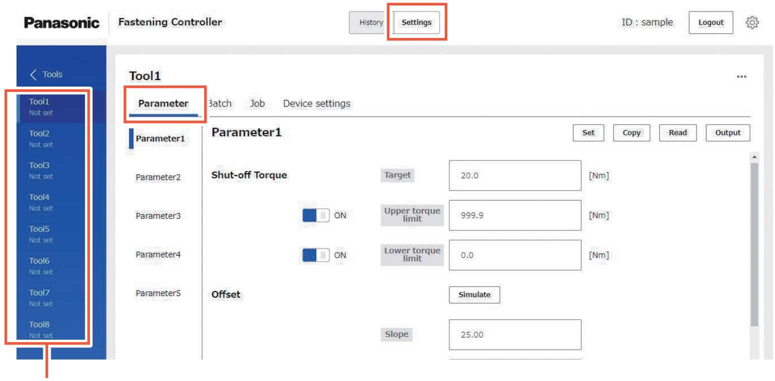
Initialize settings

Return the target tool to the factory default state.
Is it OK?

AJUSTE DE LOS PARÁMETROS DE FIJACIÓN DE LAS HERRAMIENTAS

Ajuste de parámetros

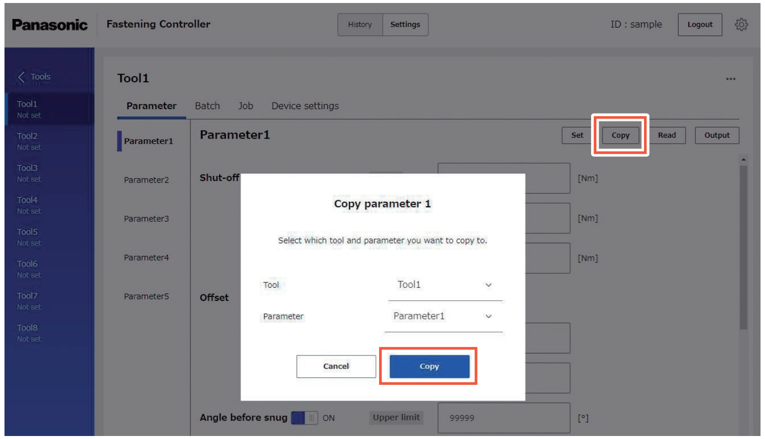
En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.
En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.
En la pantalla del número de herramienta, seleccione “Parameter” para realizar los ajustes.
Puede ajustar cinco parámetros (parámetros del 1 a 5) para cada herramienta.
* Para cambiar la herramienta, seleccione la deseada en la lista de herramientas.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
20.0
[Nm]
ON
Upper torque limit
999.9
Lower torque limit
0.0
Offset
Simulate
Slope
25.00

Lista de herramientas

Copia de parámetros

Puede copiar el parámetro establecido para crear un nuevo parámetro a partir de él o utilizarlo en otra herramienta.
En la pestaña “Parameter” de la pantalla para el número de herramienta, haga clic en [Copy] para visualizar la pantalla para copiar el parámetro. En la pantalla, seleccione el destino y haga clic en [Copy].

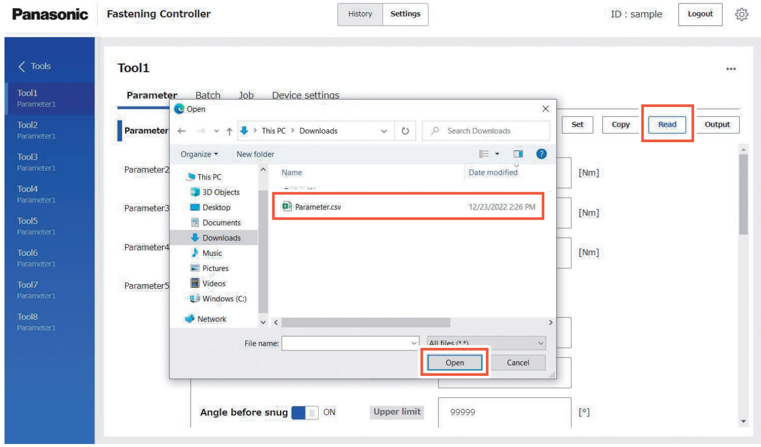

Copy parameter 1

Select which tool and parameter you want to copy to.

Tool: Tool1
Parameter: Parameter1
Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Set
Copy
Read
Output
Shut-off
Offset
Cancel
Copy
Angle before snug
ON
Upper limit
99999
[°]

Carga de parámetros

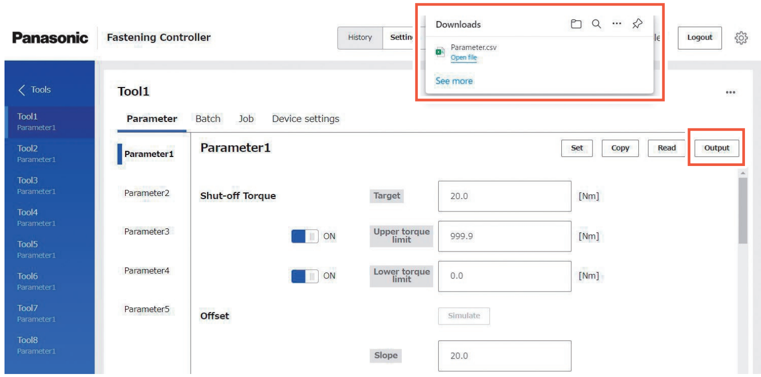
Puede registrar un parámetro cargando un archivo de parámetro guardado en el PC para la configuración en el controlador.
También puede cargar un archivo de parámetro creado con “Tool Manager”.
Desde la pestaña “Parameter” en la pantalla para el número de herramienta, haga clic en [Read] y abra el archivo del parámetro.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Parameter
Batch
Job
Device settings
Open
This PC › Downloads
Search Downloads
Organize
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Network
Name
Date modified
Parameter.csv
12/23/2022 2:26 PM
File name:
All files (*.*)
Open
Cancel
Set
Copy
Read
Output
Angle before snug
ON
Upper limit
99999

Exportar parámetros

Puede exportar el parámetro creado al PC para la configuración.
Puede utilizar el archivo exportado como copia de seguridad, para copiarlo a otro controlador o moverlo a otro PC para la configuración.
Desde la pestaña “Parameter” en la pantalla para el número de herramienta, haga clic en [Output] y guarde el archivo del parámetro.

No edite el archivo del parámetro exportado.
De lo contrario, es posible que no se lea correctamente.

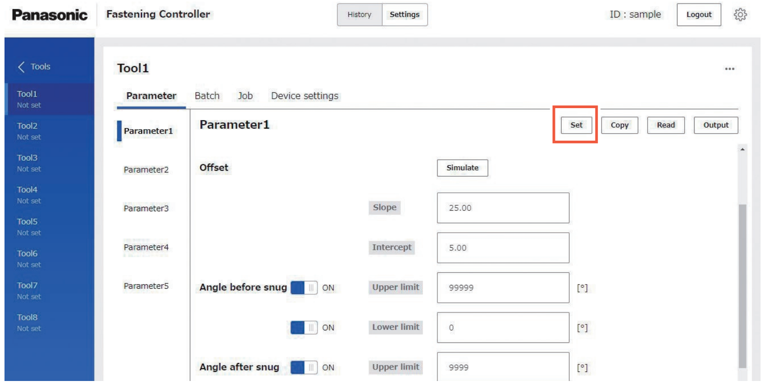

Panasonic
Fastening Controller
Downloads
Parameter.csv
Open file
See more
History
Logout
Tools
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Shut-off Torque
Target
20.0
[Nm]
ON
Upper torque limit
999.9
Lower torque limit
0.0
Offset
Simulate
Slope
20.0

Registro de parámetros

Registre un parámetro para utilizarlo para controlar una herramienta en el “Free mode” del modo de funcionamiento de controlador.

* No se utiliza en “Repeat mode” y “External control mode”.
(Para “Free mode”, “Repeat mode” y “External control mode”, consulte “Ajuste del modo de funcionamiento”. **Consulte P45**

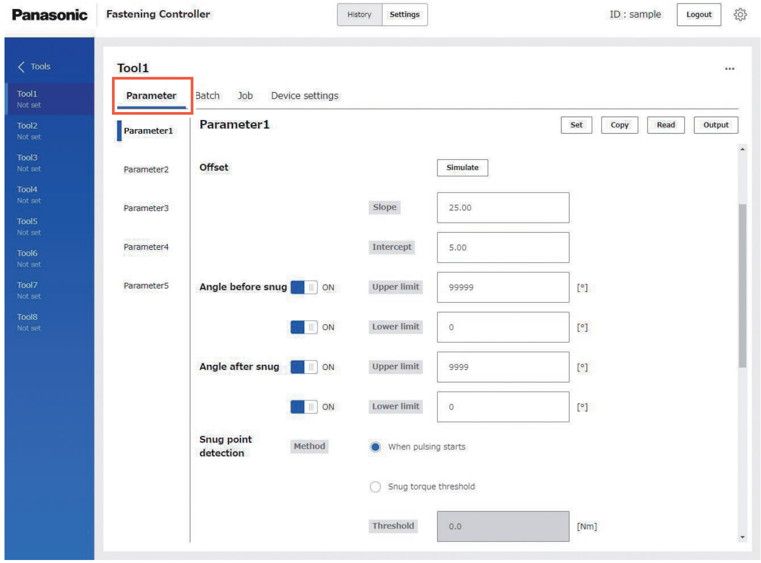
Desde la pestaña “Parameter” en la pantalla para el número de herramienta, haga clic en [Set].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

Parameter1
Offset
Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]

Elementos del parámetro

Ajuste los elementos de los parámetros de fijación.
Para más información, consulte el Manual de instrucciones de la herramienta.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Set
Copy
Read
Output
Simulate

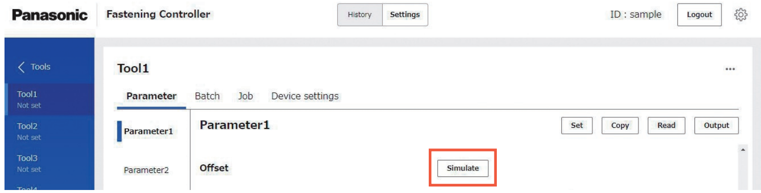
Parameter1
Offset
Slope 25.00
Intercept 5.00
Angle before snug ON Upper limit 99999 [°]
ON Lower limit 0 [°]
Angle after snug ON Upper limit 9999 [°]
ON Lower limit 0 [°]
Snug point detection Method ● When pulsing starts
○ Snug torque threshold
Threshold 0.0 [Nm]

■ Ajuste de un desplazamiento (Parámetro, referencia ①)

Ajuste un desplazamiento para que coincida con el valor de salida del par con el valor medido real.

1 **Desde la pestaña “Parameter” en la pantalla para el número de herramienta, haga clic en [Simulate] en “Offset”.**

Se visualiza la página “Offset”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1 Not set
Tool2 Not set
Tool3 Not set
Tool1
Parameter
Batch
Job
Device settings
Parameter1
Parameter2
Set
Copy
Read
Output
Offset
Simulate

2 **Introduzca un valor a ajustar y haga clic en [Apply].**

Introduzca “Socket length” y “Shut-off Torque”.
Haga clic en [Apply] para enviar los valores introducidos a la herramienta.
La herramienta entra en el modo de corrección (indicado como T2).

3 **Lleve a cabo el trabajo real utilizando la herramienta y luego haga clic en [Get data].**

Se añade un registro de historial de fijación a la lista del historial en la página “Offset”.

* Aunque la herramienta se prepara para la fijación (“modo C”) después de hacer clic en [Get data], no inicie la fijación normal hasta que se haya completado el ajuste del desplazamiento.

4 **Mientras está seleccionado el registros del historial de fijación obtenido, introduzca un valor de par medido real (refijación) y haga clic en [Calculate].**

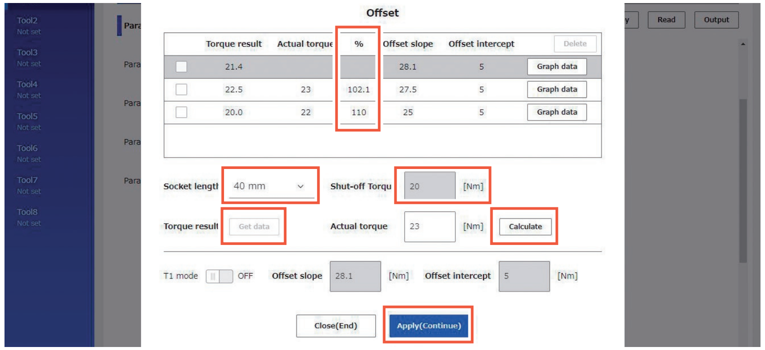
Se calcula automáticamente una desviación para hacer coincidir el par de salida con el par real medido de la herramienta.

5 **Confirme que el desplazamiento está actualizado y haga clic en [Apply].**

El valor ajustado se envía a la herramienta.

6 **Repita los pasos 3 a 5 hasta que la diferencia sea lo suficientemente pequeña.**

* Mantenga los valores en la columna “%” dentro del intervalo del 95 % al 105 %.


Tool2 Not set
Tool3 Not set
Tool4 Not set
Tool5 Not set
Tool6 Not set
Tool7 Not set
Tool8 Not set
Read
Output
Delete
Graph data
Get data
Calculate
Close(End)
Apply(Continue)

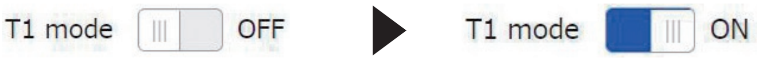
Offset

	Torque result	Actual torque	%	Offset slope	Offset intercept	
☐	21.4			28.1	5	Graph data
☐	22.5	23	102.1	27.5	5	Graph data
☐	20.0	22	110	25	5	Graph data

Socket length 40 mm
Shut-off Torque 20 [Nm]
Torque result
Actual torque 23 [Nm]
T1 mode OFF
Offset slope 28.1 [Nm]
Offset intercept 5 [Nm]

[Acerca del T1 mode]

Comprobar [T1 mode] en la pantalla de ajuste del desplazamiento pone el controlador en el modo de salida mínimo.
(Anular la selección de [T1 mode] devuelve el controlador al “Offset Mode”).


T1 mode
OFF
T1 mode
ON

T1 mode
[Descripción] Puede comprobar si el control de par funciona correctamente cuando el par objetivo está cerca del límite inferior del rango de control de par del controlador. En este modo, el controlador se apaga en los recuentos mínimos por minuto (salida mínima). En ese momento, el registro del historial de trabajo no se almacena. Después de trabajar en este modo, utilice un medidor de par o una llave dinamométrica para confirmar que el par de salida del controlador no ha excedido el par de torsión objetivo. La unidad del controlador puede no ser utilizable para algún trabajo si su par de salida excede el par objetivo en este modo.

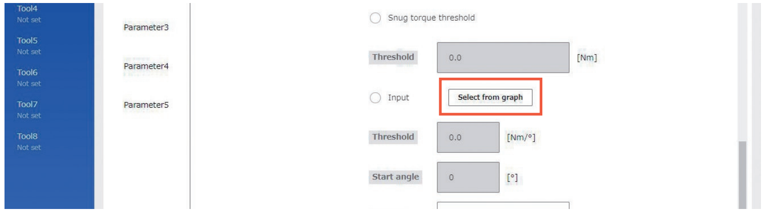
* La fijación por otras herramientas se suspende mientras se ajusta un desplazamiento.

■ Ajuste de un punto de ajuste (Parámetro, referencia ②)

Puede establecer un punto de ajuste basado en una forma de onda.

1 En la pestaña “Parameter” en la pantalla para el número de herramienta, haga clic en [Select from graph] en “Snug point detection”.

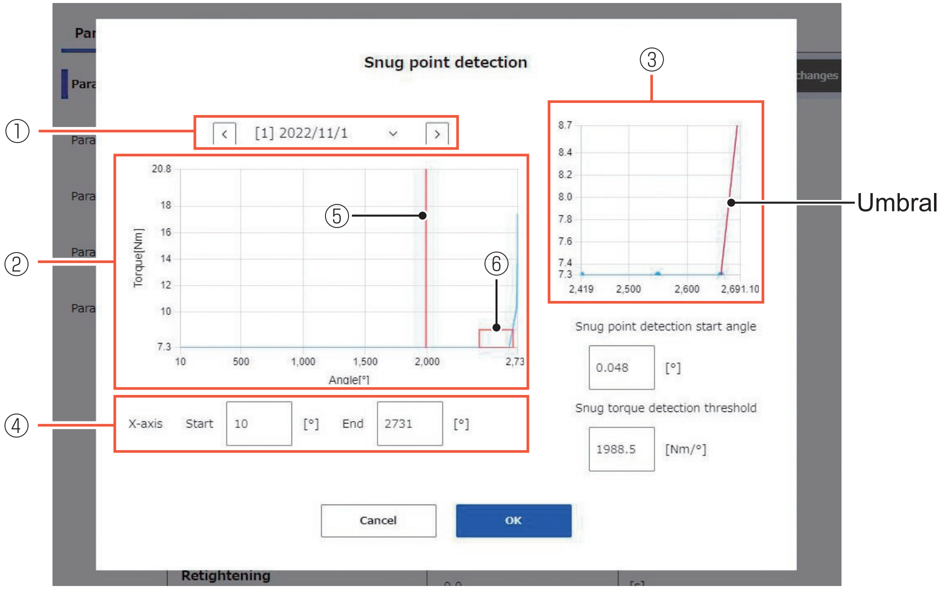
- Se visualiza la pantalla “Snug point detection” que muestra la forma de onda actual de la herramienta.
- Los datos del historial de fijación son necesarios a modo de referencia. Realice este ajuste al menos una vez después de la fijación.
- Puede cambiar la forma de onda para utilizarla con flechas (①).


Tool4
Not set
Tool5
Not set
Tool6
Not set
Tool7
Not set
Tool8
Not set
Parameter3
Parameter4
Parameter5
Select from graph

○ Snug torque threshold
Threshold 0.0 [Nm]
○ Input
Threshold 0.0 [Nm/°]
Start angle 0 [°]

2 Establezca un umbral en el gráfico.

- La ventana principal (②) muestra una forma de onda completa y la ventana secundaria (③) amplía una parte específica desde toda la forma de onda.
- Puede cambiar el rango de la forma de onda mostrada en la ventana principal introduciendo los ángulos inicial y final en el “X-axis” (④) debajo del gráfico.
- Puede ajustar el ángulo de inicio de la detección del punto de ajuste (⑤) moviendo la barra vertical.
- Ajuste la posición del marco de selección (⑥) en la ventana principal para cambiar el rango de visualización de la subventana.
- Seleccione un umbral a ajustar en la ventana secundaria (③).


Snug point detection
①
②
③
④
⑤
⑥
Umbral
[1] 2022/11/1
20.8
18
16
14
12
10
7.3
Torque[Nm]
10
500
1,000
1,500
2,000
2,73
Angle[°]
8.7
8.4
8.2
8.0
7.8
7.6
7.4
7.3
2,419
2,500
2,600
2,691.10
Cancel
OK
Retightening

X-axis Start 10 [°] End 2731 [°]

Snug point detection start angle
0.048 [°]

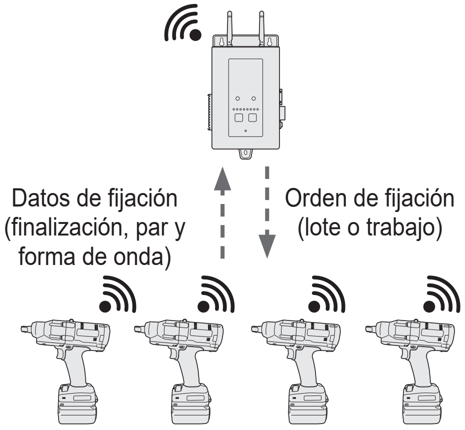
Snug torque detection threshold
1988.5 [Nm/°]

AJUSTE DEL MODO DE CONTROL DE LA FIJACIÓN

Control de la fijación mediante herramientas

El controlador puede controlar hasta 8 herramientas conectadas para la fijación. Recibe datos de fijación de cada tarea de sujeción y cuenta la cantidad fijada.

Número máximo de dispositivos conectados: 8

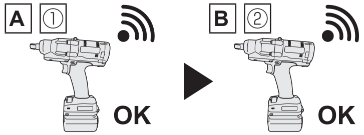

Datos de fijación (finalización, par y forma de onda)
Orden de fijación (lote o trabajo)

Combinaciones de control de fijación típicas

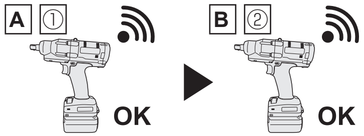
Puede crear distintas combinaciones de ajustes de control de fijación. Consulte las combinaciones típicas a continuación.

<table>
<tr><th rowspan="2">Modo</th><th rowspan="2">[Free mode]</th><th colspan="2">[Repeat mode]</th></tr>
<tr><th>[Basic mode]</th><th>[Sequence mode]</th></tr>
<tr><td>Criterio de aprobado</td><td>–
(La cantidad no se especifica)</td><td>Se completa la fijación de la cantidad objetivo</td><td>Las herramientas completan la fijación de las cantidades objetivo respectivas en el orden especificado</td></tr>
<tr><td>[Batch]
“Valor de ajuste único”
(Fijación en la misma condición)
* Un solo tipo de pieza de trabajo</td>
<td>

<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>10 Nm</td><td>∞</td></tr></table>
Parameter</td>
<td>

<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>
Batch</td>
<td>

<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>10 Nm</td><td>10</td></tr></table>
<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>20 Nm</td><td>5</td></tr></table>
Batch y Sequence</td></tr>
<tr><td>[Job]
Múltiples valores de ajuste
(Fijación en diferentes condiciones)
* Múltiples tipos de piezas de trabajo</td>
<td></td>
<td>

<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>
Job</td>
<td>

<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>10 Nm</td><td>2</td></tr><tr><td>20 Nm</td><td>3</td></tr><tr><td>30 Nm</td><td>5</td></tr></table>
<table><tr><th>Valor de ajuste</th><th>Cantidad objetivo</th></tr><tr><td>20 Nm</td><td>5</td></tr><tr><td>30 Nm</td><td>10</td></tr></table>
Job y Sequence</td></tr>
<tr><td>Observación</td><td>–</td><td>* Un trabajo puede contener hasta 10 pasos.</td><td>* Una secuencia puede contener hasta 10 pasos.</td></tr>
</table>

AJUSTE DEL MODO DE CONTROL DE LA FIJACIÓN (cont.)

Número de combinaciones que se pueden registrar

Consulte el número de combinaciones que se pueden registrar en el controlador tal como se indica a continuación.

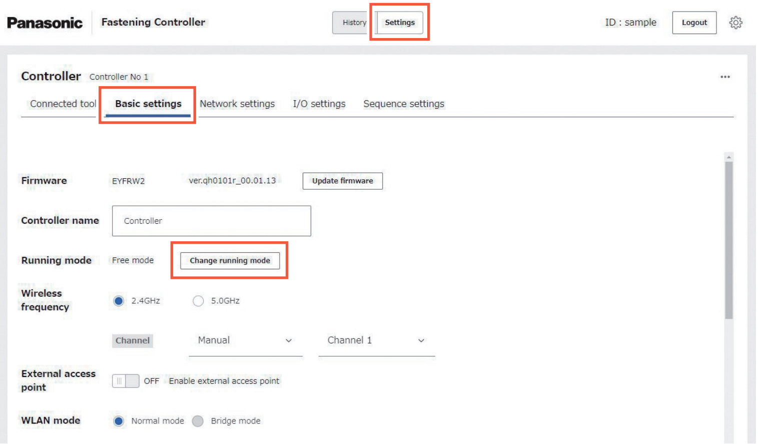
Modo del controlador		Ajuste de la herramienta	Número de combinaciones que se pueden registrar
Free mode		**Parameter**	○ 5 combinaciones por herramienta
Repeat mode	**Basic mode (control independiente)**	**Batch**	○ 5 combinaciones por herramienta
		Job	○ 5 combinaciones por herramienta
	Sequence mode (control secuencial)	**Batch/Job**	○ 5 combinaciones
External control mode		–	○

Ajuste del modo de funcionamiento

Ajuste el modo de funcionamiento del controlador como se indica a continuación.

1. **En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Basic settings”.**

2. **En la pestaña “Basic settings”, haga clic en [Change running mode].**
Se visualiza la pantalla “Change running mode”.



Controller Controller No 1

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name: Controller

Running mode: Free mode

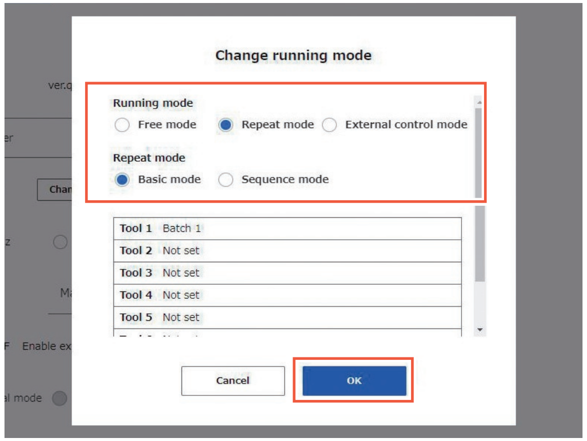
Wireless frequency: ● 2.4GHz ○ 5.0GHz

Channel: Manual, Channel 1

External access point: OFF Enable external access point

WLAN mode: ● Normal mode ○ Bridge mode

3. **Seleccione un “Running mode” y haga clic en [OK].**
Se establece el modo de funcionamiento.
Seleccione un modo de funcionamiento de entre “Free mode”, “Repeat mode” y “External control mode”.
Para “Repeat mode”, seleccione “Basic mode” o “Sequence mode”.
Consulte P46 a 49



Change running mode

Running mode: ○ Free mode ● Repeat mode ○ External control mode

Repeat mode: ● Basic mode ○ Sequence mode

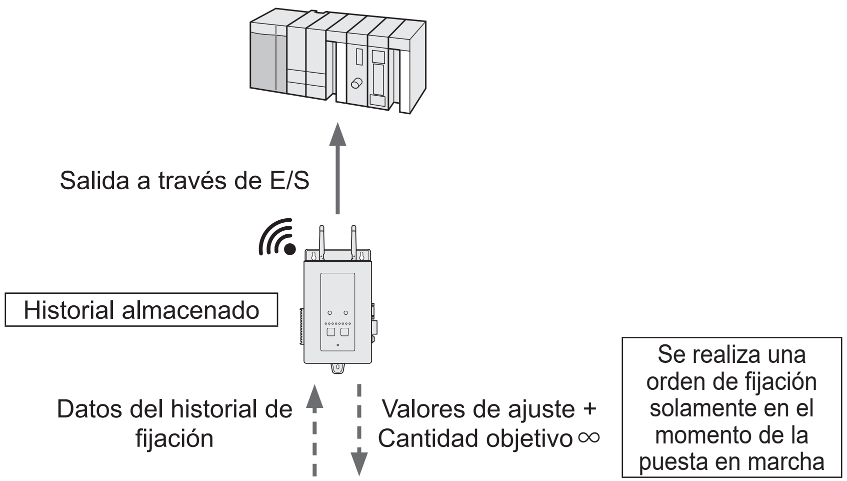
Tool 1 Batch 1
Tool 2 Not set
Tool 3 Not set
Tool 4 Not set
Tool 5 Not set

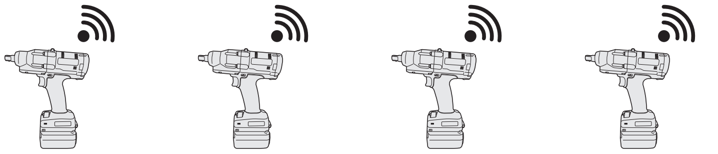
* Registre el “Parameter” antes de ajustarlo en el “Free mode”.
* Registre un “Batch/Job” antes de ajustarlo en el “Repeat mode”.

AJUSTE DEL MODO DE CONTROL DE LA FIJACIÓN (cont.)

■ Free mode

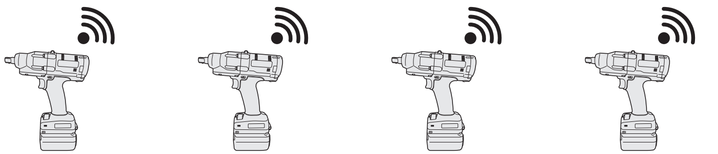
Este modo permite una fijación incondicional sin especificar la cantidad a fijar.
Las herramientas usan parámetros preregistrados para la fijación.
Hasta 8 herramientas pueden llevar a cabo una operación independiente.
Se activan los ajustes de salida de E/S.
* Utilice el modo cuando la cantidad fijada sea contada por un dispositivo externo.


Salida a través de E/S
Historial almacenado
Datos del historial de fijación
Valores de ajuste + Cantidad objetivo ∞
Se realiza una orden de fijación solamente en el momento de la puesta en marcha



Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo
10 Nm	∞	20 Nm	∞	30 Nm	∞	40 Nm	∞

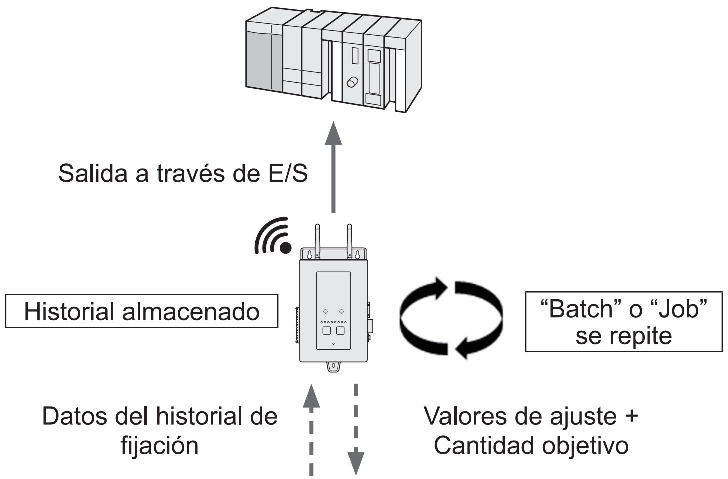
Se pueden controlar hasta 8 herramientas al mismo tiempo

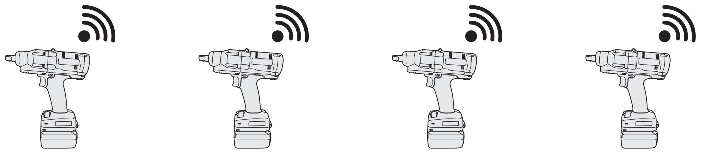


Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo
50 Nm	∞	60 Nm	∞	70 Nm	∞	80 Nm	∞

■ Repeat mode (Basic mode)

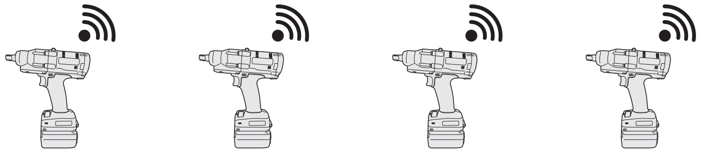
Este modo repite un proceso “Batch” o “Job”.
Las herramientas utilizan los ajustes preregistrados “Batch” o “Job” para la fijación.
Hasta 8 herramientas pueden llevar a cabo una operación independiente.
Se activan los ajustes de salida de E/S.


Salida a través de E/S
Historial almacenado
“Batch” o “Job” se repite
Datos del historial de fijación
Valores de ajuste + Cantidad objetivo



Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo
10 Nm	10	20 Nm	10	30 Nm	10	40 Nm	10

Se pueden controlar hasta 8 herramientas al mismo tiempo



Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo	Valor de ajuste	Cantidad objetivo
50 Nm	10	60 Nm	10	70 Nm	10	80 Nm	10
60 Nm	5	70 Nm	5	80 Nm	5	90 Nm	5
70 Nm	5	80 Nm	5	90 Nm	5	10 Nm	5

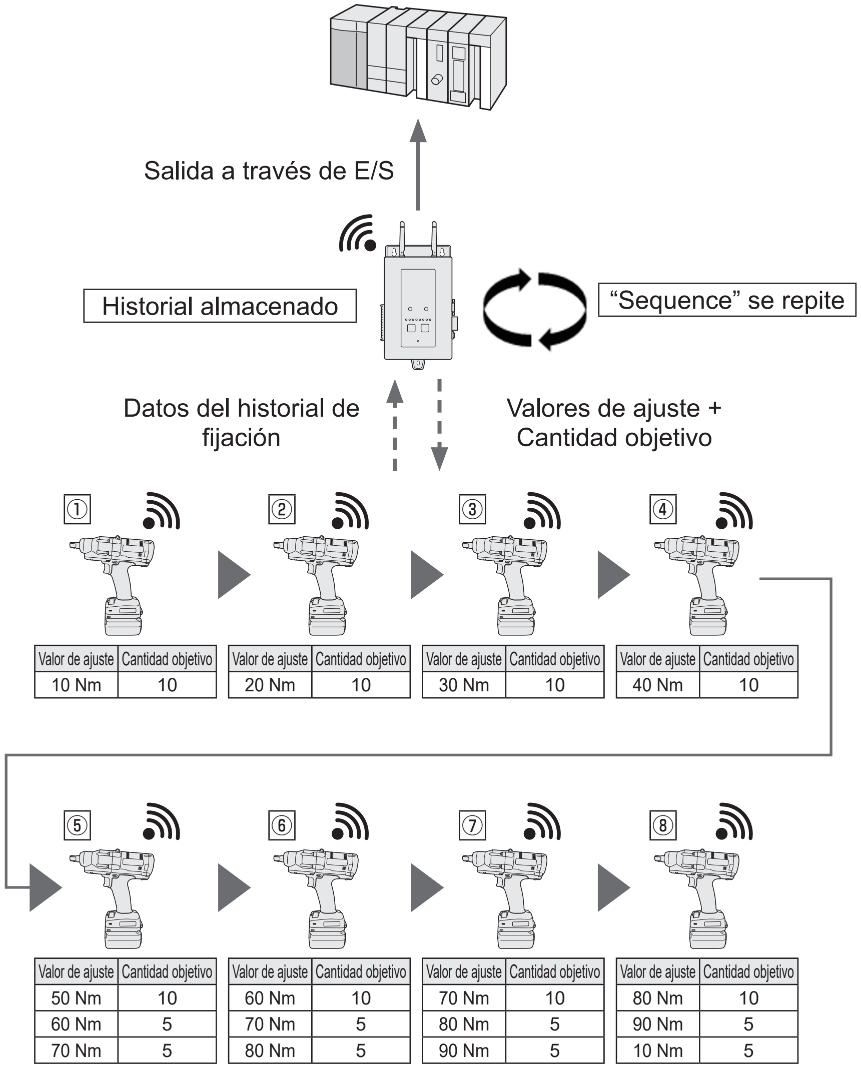
■ Repeat mode (Sequence mode)

Este modo repite un proceso “Sequence” donde las herramientas disponibles se controlan en orden.

Las herramientas utilizan ajustes “Sequence” preregistrados para la fijación secuencial.

Se pueden ajustar hasta 10 pasos. Una secuencia soporta hasta 8 herramientas pero solo permite que una herramienta funcione a la vez.

Se activan los ajustes de salida de E/S.


Salida a través de E/S
Historial almacenado
“Sequence” se repite
Datos del historial de fijación
Valores de ajuste + Cantidad objetivo
①
②
③
④
⑤
⑥
⑦
⑧

①

Valor de ajuste	Cantidad objetivo
10 Nm	10

②

Valor de ajuste	Cantidad objetivo
20 Nm	10

③

Valor de ajuste	Cantidad objetivo
30 Nm	10

④

Valor de ajuste	Cantidad objetivo
40 Nm	10

⑤

Valor de ajuste	Cantidad objetivo
50 Nm	10
60 Nm	5
70 Nm	5

⑥

Valor de ajuste	Cantidad objetivo
60 Nm	10
70 Nm	5
80 Nm	5

⑦

Valor de ajuste	Cantidad objetivo
70 Nm	10
80 Nm	5
90 Nm	5

⑧

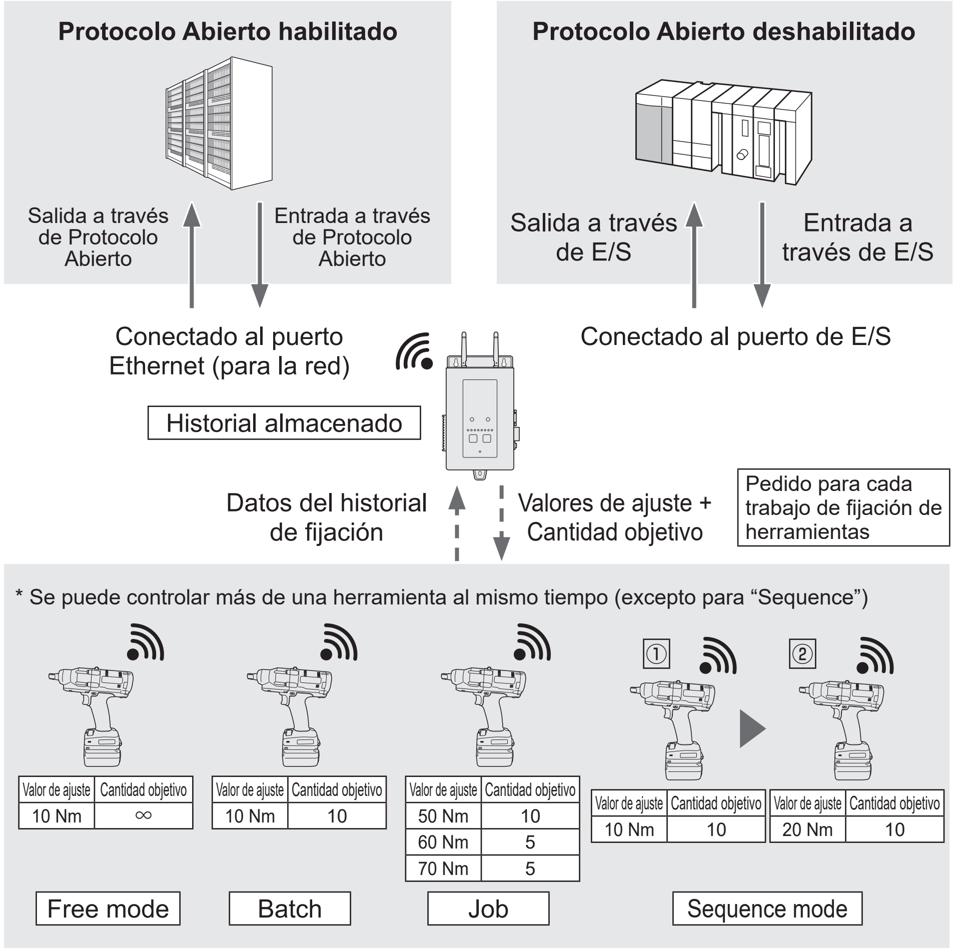
Valor de ajuste	Cantidad objetivo
80 Nm	10
90 Nm	5
10 Nm	5

■ External control mode

Este modo permite fijar el control según lo solicitado por un dispositivo externo (sistema anfitrión).

Los siguientes 2 tipos de control son compatibles.

- **Control mediante Protocolo Abierto (con Protocolo Abierto habilitado)**
  La fijación se controla a través de un Protocolo Abierto mediante un sistema anfitrión.
  Se pueden controlar hasta 8 herramientas de forma independiente.
  * Los controles de trabajos y secuencias no son compatibles.
- **Control mediante E/S (con Protocolo abierto deshabilitado)**
  La fijación se controla mediante entradas a través del puerto de E/S desde un dispositivo externo.
  Se pueden controlar hasta 8 herramientas independiente o secuencialmente.


Protocolo Abierto habilitado
Salida a través de Protocolo Abierto
Entrada a través de Protocolo Abierto
Protocolo Abierto deshabilitado
Salida a través de E/S
Entrada a través de E/S
Conectado al puerto Ethernet (para la red)
Conectado al puerto de E/S
Historial almacenado
Datos del historial de fijación
Valores de ajuste + Cantidad objetivo
Pedido para cada trabajo de fijación de herramientas
* Se puede controlar más de una herramienta al mismo tiempo (excepto para “Sequence”)
①
②
Free mode
Batch
Job
Sequence mode

Free mode

Valor de ajuste	Cantidad objetivo
10 Nm	∞

Batch

Valor de ajuste	Cantidad objetivo
10 Nm	10

Job

Valor de ajuste	Cantidad objetivo
50 Nm	10
60 Nm	5
70 Nm	5

Sequence mode ①

Valor de ajuste	Cantidad objetivo
10 Nm	10

Sequence mode ②

Valor de ajuste	Cantidad objetivo
20 Nm	10

* Si el controlador se apaga durante la fijación, ésta no se reanuda tras encender el controlador. La fijación vuelve a comenzar cuando se solicita por un dispositivo externo.
* Se activan los ajustes de salida de E/S.

AJUSTE DEL MODO DE CONTROL DE LA FIJACIÓN (cont.)

Creación (ajuste) de un lote

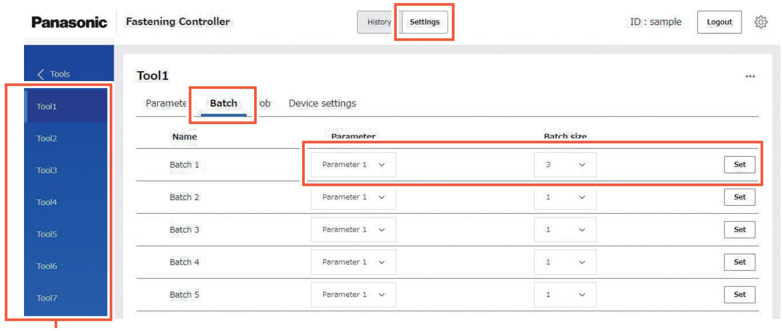
En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”. En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.

En la pantalla del número de herramienta, seleccione la pestaña “Batch” para realizar los ajustes.

Seleccione un parámetro desde el menú desplegable “Parameter” y ajuste “Batch size” (cantidad a fijar, hasta 99). Haga clic en [Set] para ajustar los valores para “Repeat mode (Basic mode)”.

* Para cambiar la herramienta, seleccione la deseada en la lista de herramientas.

* Se pueden registrar hasta 5 lotes.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool1
Paramete
Batch
ob
Device settings
Set

Name	Parameter	Batch size
Batch 1	Parameter 1	3
Batch 2	Parameter 1	1
Batch 3	Parameter 1	1
Batch 4	Parameter 1	1
Batch 5	Parameter 1	1

Lista de herramientas

Creación (ajuste) de un trabajo

En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”. En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.

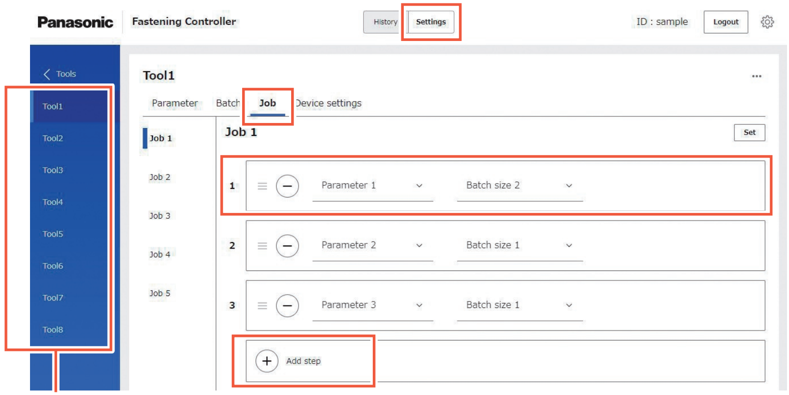
En la pantalla del número de herramienta, seleccione la pestaña “Job” para realizar los ajustes.

Seleccione un parámetro desde el menú desplegable “Parameter” y ajuste “Batch size” (cantidad a fijar, hasta 99). Haga clic en [Set] para ajustar los valores para “Repeat mode (Basic mode)”.

* Se pueden registrar hasta 10 pasos.

* Para cambiar la herramienta, seleccione la deseada en la lista de herramientas.

* Se pueden registrar hasta 5 trabajos.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Tool1
Parameter
Batch
Job
Device settings
Job 1
Job 2
Job 3
Job 4
Job 5
Job 1
Set
Add step

1 Parameter 1 Batch size 2

2 Parameter 2 Batch size 1

3 Parameter 3 Batch size 1

Lista de herramientas

Creación (ajuste) de una secuencia

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Sequence settings”.

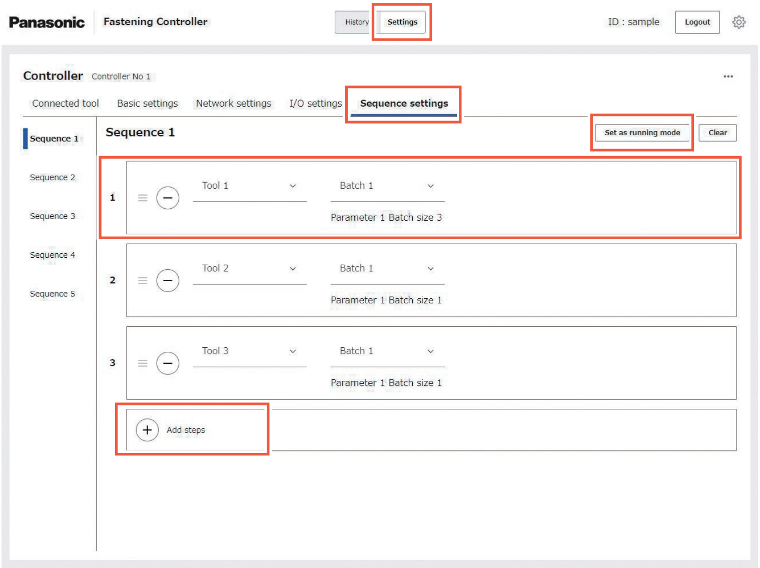
En la pantalla “Sequence settings”, seleccione una herramienta del menú desplegable “Tool” y ajuste “Batch” o “Job”.

Haga clic en [Set as running mode] para ajustar los valores de “Repeat mode (Sequence mode)”.

* Se pueden registrar hasta 5 secuencias.

* Se pueden registrar hasta 10 pasos.

* Se puede utilizar la misma herramienta más de una vez en una secuencia.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Sequence 1
Sequence 2
Sequence 3
Sequence 4
Sequence 5
Sequence 1
Set as running mode
Clear
Add steps

1 Tool 1 Batch 1 Parameter 1 Batch size 3

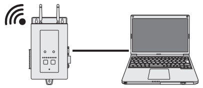
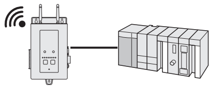
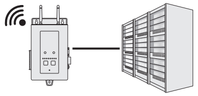
2 Tool 2 Batch 1 Parameter 1 Batch size 1

3 Tool 3 Batch 1 Parameter 1 Batch size 1

CONEXIÓN A UN DISPOSITIVO EXTERNO

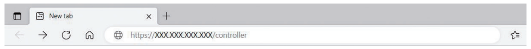
Tipos de dispositivos externos compatibles

El controlador es compatible con los siguientes tipos de dispositivos externos.

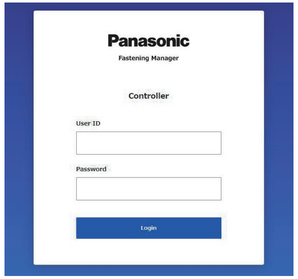
Función	PC para la configuración	PLC	Sistema anfitrión del cliente
Ilustración			
Método de comunicación	Ethernet	E/S	Ethernet
Protocolo de comunicación	http/https	— (Solo señal ON/OFF)	Protocolo Abierto
Uso principal	• Visualización y almacenamiento del historial de fijación • Cambio de los ajustes	• Emisión de las señales de finalización y fallo • Conmutación del orden de fijación	• Exportación del historial de fijación • Conmutación del orden de fijación
Datos que se pueden exportar	• Números de serie de las herramientas • Hora • Resultados de finalización y fallos • Valores de par, ángulos, longitudes de tiempo de fijación • Datos de forma de onda	• Resultados de finalización y fallos • Batch/job/sequence completa • Batch/job/sequence seleccionado • Herramienta activa	• Números de serie de las herramientas • Hora • Resultados de finalización y fallos • Valores de par, ángulos, longitudes de tiempo de fijación • Datos de forma de onda
Cambio del orden de fijación	—	• Batch/job/sequence seleccionado	• Parameter/batch seleccionado
Otros	Se muestra en un navegador web. Se recomienda Microsoft Edge.	8 puertos para cada entrada y salida	Para más información sobre los comandos compatibles, consulte "Comandos compatibles con Protocolo Abierto". **Consulte P61** Las secuencias de control deben ser revisadas respectivamente.

Conexión al PC para configuración en una ubicación remota

El PC para la configuración con el certificado instalado puede conectarse remotamente a los controladores.
Tenga en cuenta que solo se acepta un acceso a la función de configuración a la vez.
Para conectarse, introduzca la dirección IP del controlador deseado en un navegador web. **Consulte P21**



https://XXX.XXX.XXX.XXX/controller



CONEXIÓN A UN DISPOSITIVO EXTERNO A TRAVÉS DE LA E/S

Conexión a través de la E/S

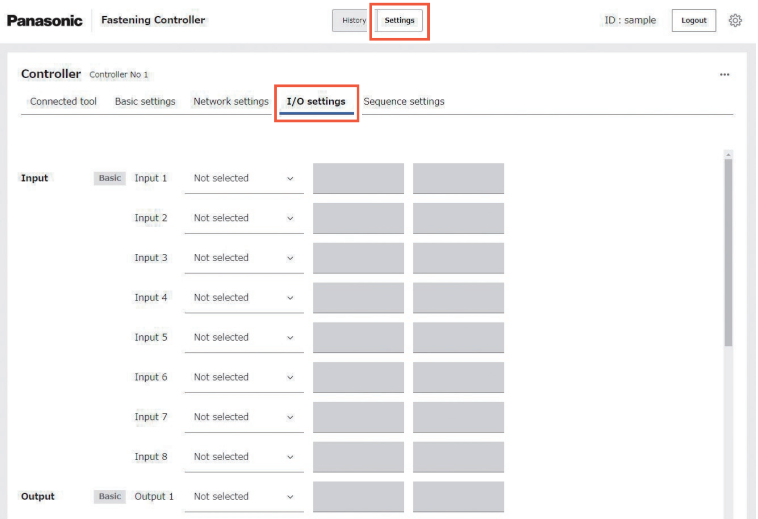
Puede asignar comandos compatibles a 8 puertos de entrada y 8 puertos de salida como desee.
Asígnelos en la pantalla "I/O settings".
A continuación se indican los comandos que se pueden asignar a los puertos.

Entrada	Comando compatible
1	Batch (Herramienta 1 a 5) Job (Herramienta 1 a 5) Sequence (1 a 5) Batch reset (1 a 8) Reset Suspend tool (1 a 8) Suspend controller
2	
3	
4	
5	
6	
7	
8	

Salida	Comando compatible
1	OK (Herramienta 1 a 8) NOK (Herramienta 1 a 8) Batch complete (Herramienta 1 a 5) Job complete (Herramienta 1 a 5) Sequence complete (1 a 5) Tool active (Herramienta 1 a 8) Batch selected (Herramienta 1 a 5) Job selected (Herramienta 1 a 5) Sequence selected (1 a 5)
2	
3	
4	
5	
6	
7	
8	

Ajuste de E/S

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña "I/O settings".



Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected
Input 5 Not selected
Input 6 Not selected
Input 7 Not selected
Input 8 Not selected
Output 1 Not selected

* Es posible asignar un comportamiento o un evento aún no registrado. (Excepto para la selección de trabajo y la selección de secuencia)

Comandos asignados a los puertos de entrada

A continuación se indican los comandos que se pueden asignar a los puertos de entrada. Se ejecuta el comando asignado cuando una señal de un dispositivo externo se introduce en uno de los puertos.

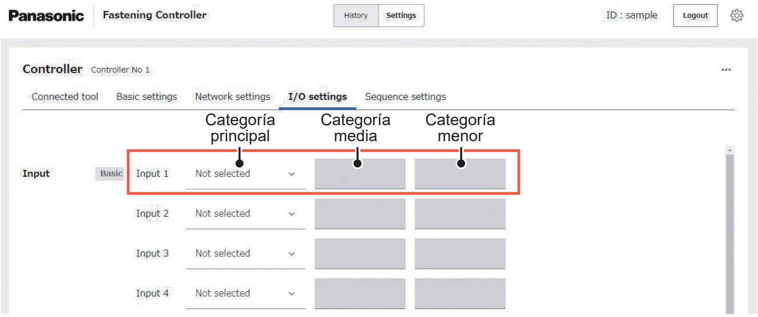
Categoría principal (comportamiento)	Categoría media (herramienta)	Categoría menor (N.º de lote, etc.)
Batch	Herramienta del 1 al 8	1-5
Job	Herramienta del 1 al 8	1-5
Sequence	—	1-5
Suspend tool[*1]	Herramienta del 1 al 8	—
Suspend controller[*1]	—	—
Batch reset	Herramienta del 1 al 8	—
Reset	—	—

*1 Habilitado solo mientras se mantiene la señal de entrada.

Notas cuando se introduce el comando “Suspend tool” o “Suspend controller”

- Mientras “Suspend controller” está activo, no se acepta ninguna orden de fijación.
- Para el número de herramienta con “Suspend tool” activo, no se acepta ninguna orden de fijación “Batch” o “Job”.
- Para otros números de herramienta con “Suspend tool” activo, se acepta una orden de fijación “Batch” o “Job”.
- Mientras “Suspend tool” está activo, no se acepta ninguna orden de fijación “Sequence”. En ese momento, el proceso continúa hasta llegar a la herramienta con “Suspend tool” activo.
- “Batch reset” y “Reset” son tratados de la misma forma que en una orden de sujeción.

Después de seleccionar un comportamiento en la categoría principal, seleccione una herramienta y, a continuación, un número (por ejemplo, número de lote) según sea necesario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Categoría principal
Categoría media
Categoría menor
Input
Basic

Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected

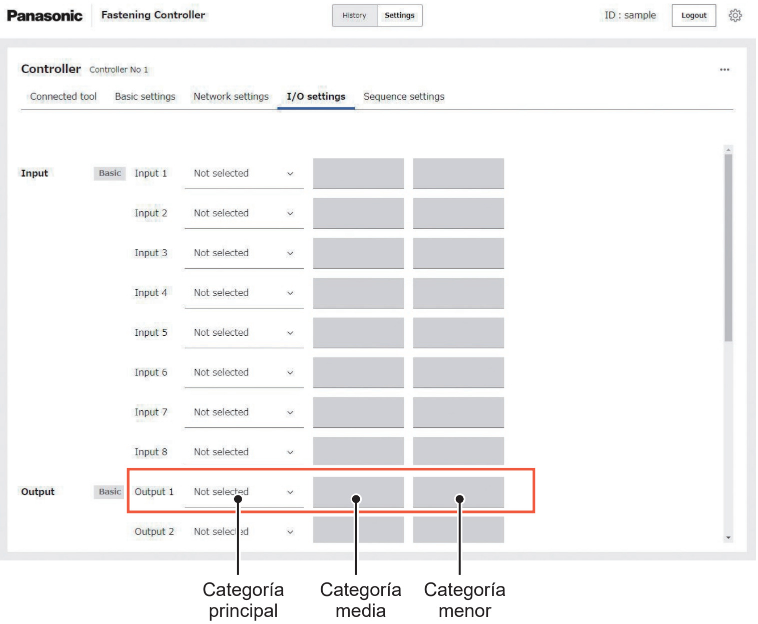
* No se realiza ninguna acción si se introduce una señal no asignada. (No ocurre ningún error)

Comandos asignados a los puertos de salida

A continuación se indican los comandos que se pueden asignar a los puertos de salida. Cuando se ha producido un evento relevante, el controlador envía una señal desde el puerto correspondiente a un dispositivo externo según lo especificado por el comando asignado.

Categoría principal (evento)	Categoría media (herramienta)	Categoría menor (N.º de lote, etc.)
OK	Herramienta del 1 al 8	—
NOK	Herramienta del 1 al 8	—
Batch complete	Herramienta del 1 al 8	1-5
Job complete	Herramienta del 1 al 8	1-5
Sequence complete	—	1-5
Tool active	Herramienta del 1 al 8	—
Batch selected	Herramienta del 1 al 8	1-5
Job selected	Herramienta del 1 al 8	1-5
Sequence selected	—	1-5

Después de seleccionar un evento en la categoría principal, seleccione una herramienta y, a continuación, un número (por ejemplo, número de lote) según sea necesario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Input
Basic
Output
Basic
Categoría principal
Categoría media
Categoría menor

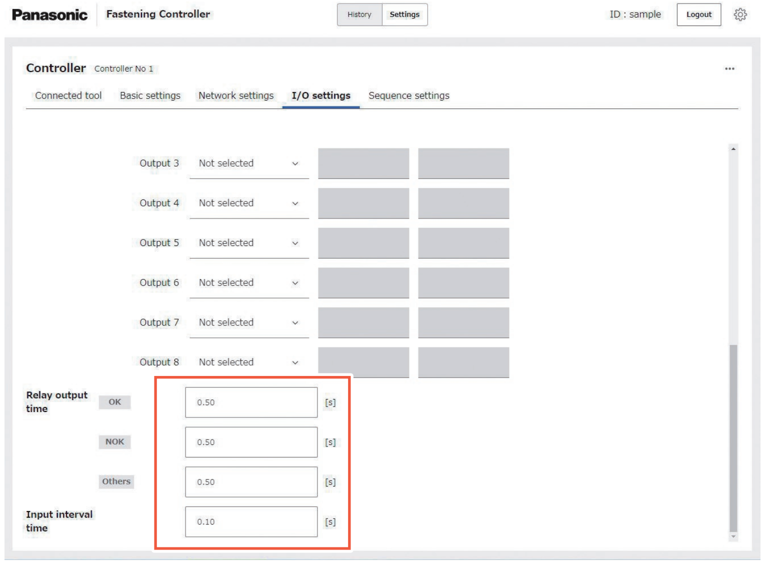
Input 1 Not selected
Input 2 Not selected
Input 3 Not selected
Input 4 Not selected
Input 5 Not selected
Input 6 Not selected
Input 7 Not selected
Input 8 Not selected
Output 1 Not selected
Output 2 Not selected

* Si el controlador se apaga mientras se ejecuta un comando de salida, el proceso no se reanuda una vez que el controlador se encienda. (Tenga en cuenta que se guardan los datos del historial de fijación).

CONEXIÓN A UN DISPOSITIVO EXTERNO A TRAVÉS DE LA E/S (cont.)

Otros ajustes

Puede establecer otros ajustes relacionados con la E/S como se indica a continuación.



Panasonic Fastening Controller
History Settings
ID : sample Logout

Controller Controller No 1
Connected tool Basic settings Network settings **I/O settings** Sequence settings

Output 3 Not selected
Output 4 Not selected
Output 5 Not selected
Output 6 Not selected
Output 7 Not selected
Output 8 Not selected
Relay output time OK 0.50 [s]
NOK 0.50 [s]
Others 0.50 [s]
Input interval time 0.10 [s]

Relay output time (OK)

Seleccione el tiempo que debe transcurrir hasta que el relé emita una señal de finalización de la fijación.
[Predeterminado] 0.5 s
[Rango de ajuste] de 0.01 s a 10 s

Relay output time (NOK)

Seleccione el tiempo que debe transcurrir hasta que el relé emita una señal de fallo de fijación.
[Predeterminado] 0.5 s
[Rango de ajuste] de 0.01 s a 10 s

Relay output time (Others)

Seleccione el tiempo que debe transcurrir hasta que el relé emita una señal distinta de las de finalización de la fijación y fallo.
[Predeterminado] 0.5 s
[Rango de ajuste] de 0.01 s a 10 s

Input interval time

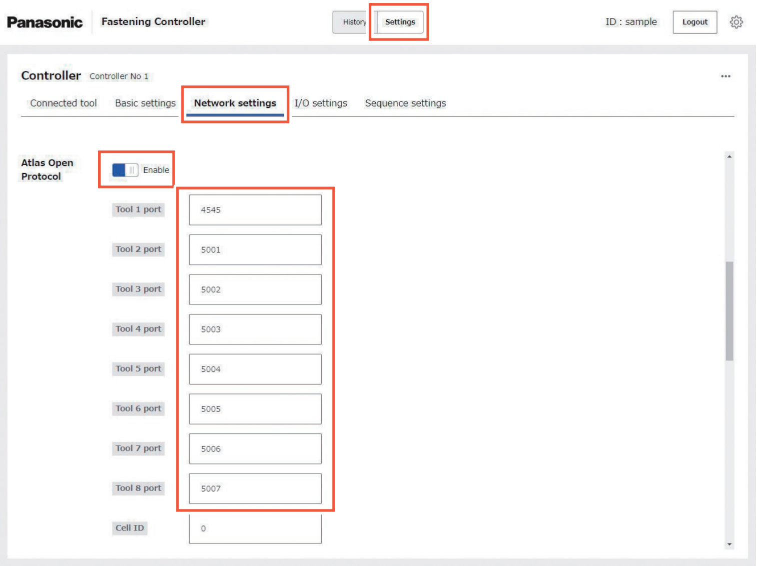
Seleccione el tiempo durante el cual no se cuentan (aceptan) las señales de entrada sucesivas.
Ajústelo para evitar el doble recuento causado por el ruido, etc.
[Predeterminado] 0.1 s
[Rango de ajuste] de 0.01 s a 10 s

CONEXIÓN A UN DISPOSITIVO EXTERNO A TRAVÉS DE PROTOCOLO ABIERTO

Conexión a través de la Comunicación de Protocolo Abierto

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Network settings”.

Enable “Atlas Open Protocol”.
Ajuste los números de puerto a las herramientas utilizadas respectivamente.



Panasonic Fastening Controller
History Settings
ID : sample Logout

Controller Controller No 1
Connected tool Basic settings **Network settings** I/O settings Sequence settings

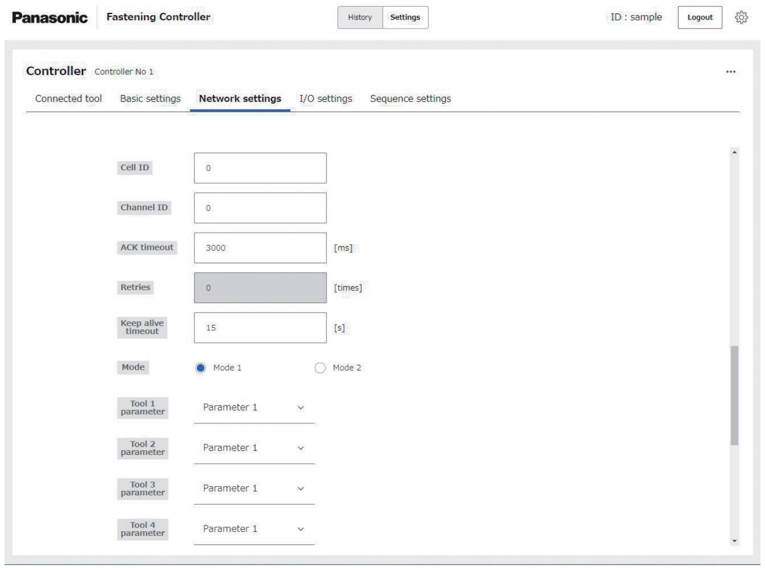
Atlas Open Protocol Enable
Tool 1 port 4545
Tool 2 port 5001
Tool 3 port 5002
Tool 4 port 5003
Tool 5 port 5004
Tool 6 port 5005
Tool 7 port 5006
Tool 8 port 5007
Cell ID 0

Tool port

Asigne un número de puerto para la comunicación de Protocolo Abierto a cada herramienta.
[Predeterminado] Herramienta 1 - 4545,
Herramienta 2 a 8 - 5001 a 5007
[Rango de ajuste] Herramienta 1 a 8 - 1024 a 49151

Otros ajustes

Ajuste otros elementos según sea necesario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID: 0
Channel ID: 0
ACK timeout: 3000 [ms]
Retries: 0 [times]
Keep alive timeout: 15 [s]
Mode: ● Mode 1 ○ Mode 2
Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1

Cell ID

Ajuste la ID de la celda.
[Predeterminado] 0
[Rango de ajuste] de 0 a 9999

Channel ID

Ajuste la ID del canal.
[Predeterminado] 0
[Rango de ajuste] de 0 a 99

ACK timeout

Establezca el tiempo de espera de una respuesta a un mensaje de solicitud del controlador.
[Predeterminado] 3000 ms
[Rango de ajuste] de 100 ms a 30000 ms

Retries

Establezca el número de veces que desea repetir el envío de un mensaje de solicitud desde el controlador.
[Predeterminado] 0 times
[Rango de ajuste] No seleccionable (Fijo)

Keep alive timeout

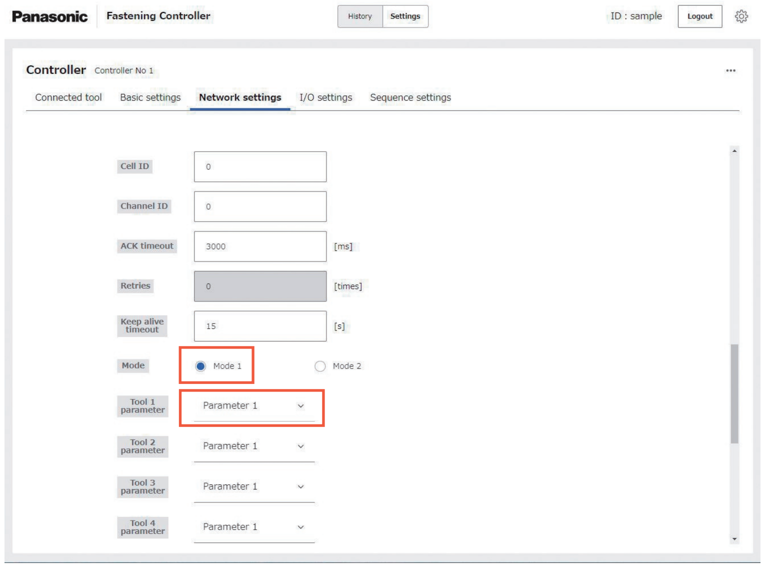
Ajuste la duración de tiempo para determinar la ocurrencia de desconexión después de la última comunicación con un sistema anfitrión.
[Predeterminado] 15 s
[Rango de ajuste] de 1 s a 60 s

Mode

Ajuste el modo de funcionamiento.
Mode 1: Fijación incondicional con parámetros prerregistrados
Mode 2: Fijación con parámetros ordenados por un sistema anfitrión
[Predeterminado] Mode 1
[Rango de ajuste] Mode 1 / Mode 2

Asignación de los parámetros de fijación (Mode 1)

"Mode 1" (sin parámetros solicitados) requiere parámetros de fijación prerregistrados en las herramientas.
Seleccione un parámetro del menú desplegable como se indica a continuación.

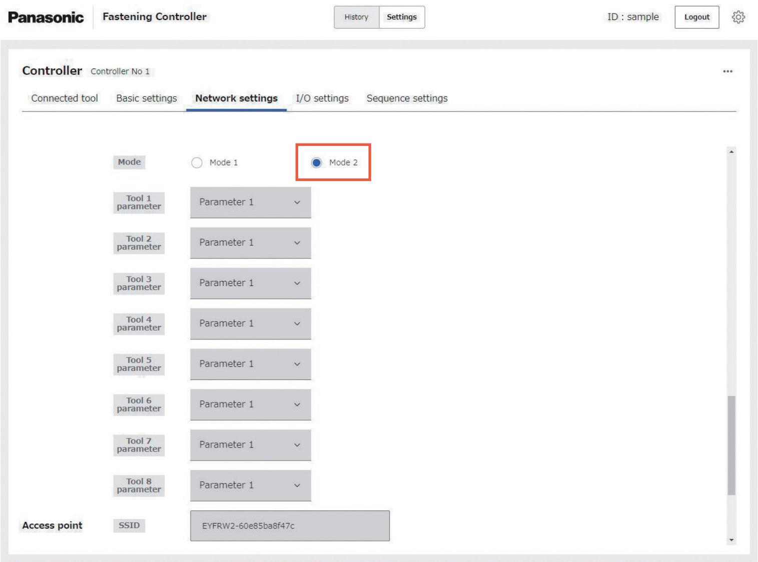

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Cell ID: 0
Channel ID: 0
ACK timeout: 3000 [ms]
Retries: 0 [times]
Keep alive timeout: 15 [s]
Mode: ● Mode 1 ○ Mode 2
Tool 1 parameter: Parameter 1
Tool 2 parameter: Parameter 1
Tool 3 parameter: Parameter 1
Tool 4 parameter: Parameter 1

CONEXIÓN A UN DISPOSITIVO EXTERNO A TRAVÉS DE PROTOCOLO ABIERTO (cont.)

Asignación de los parámetros de fijación (Mode 2)

La fijación puede solicitarse con un comando MID 0018 mediante un dispositivo externo.
Puede especificar “Parameter” o “Batch” en una orden de fijación.



Mode: ○ Mode 1 ● Mode 2

Tool 1 parameter: Parameter 1

Tool 2 parameter: Parameter 1

Tool 3 parameter: Parameter 1

Tool 4 parameter: Parameter 1

Tool 5 parameter: Parameter 1

Tool 6 parameter: Parameter 1

Tool 7 parameter: Parameter 1

Tool 8 parameter: Parameter 1

Access point SSID: EYFRW2-60e85ba8f47c

■ Para especificar “Parameter” en una orden de fijación

Ponga “0” en el dígito de las centenas de la ID.
Los dígitos de las decenas y de las unidades muestran un número de parámetro.

Ejemplo: ID del parámetro 1: 001
ID del parámetro 5: 005

■ Para especificar “Batch” en una orden de fijación

Ponga “1” en el dígito de las centenas de la ID.
Los dígitos de las decenas y de las unidades muestran un número de lote.

Ejemplo: ID del lote 1: 101
ID del lote 5: 105

* “Job” y “Sequence” no son compatibles.

■ Comandos compatibles con Protocolo Abierto

El controlador es compatible con los siguientes comandos.
Para obtener más detalles sobre los comandos, consulte Especificación de Protocolo Abierto.

MID 0001 Application communication start

La revisión 1 es compatible.
[Contenido] Inicio de la comunicación

MID 0002 Application communication start acknowledge

La revisión 1 es compatible.
[Contenido] Reconocimiento de la comunicación

MID 0004 Application command error

La revisión 1 es compatible.
[Contenido] Error de comando

MID 0005 Application command accepted

La revisión 1 es compatible.
[Contenido] Aceptación de comandos

MID 0018 Select parameter set, Dynamic Job included

La revisión 1 es compatible.
Para más información sobre cómo asignar, consulte “Asignación de los parámetros de fijación (Mode 2)”. **Consulte P60**
[Contenido] Orden de los parámetros

MID 0042 Disable tool

La revisión 1 es compatible.
[Contenido] Herramienta deshabilitada

MID 0043 Enable tool

La revisión 1 es compatible.
[Contenido] Herramienta habilitada

MID 0050 Vehicle ID number download request

La revisión 1 es compatible.
[Contenido] Solicitud de adquisición de la ID del vehículo

MID 0060 Last tightening result data subscribe
Las revisiones 1 y 2 son compatibles. [Contenido] Registro de datos del resultado final de la fijación

MID 0061 Last tightening result data
Las revisiones 1 y 2 son compatibles. [Contenido] Carga del resultado de la fijación

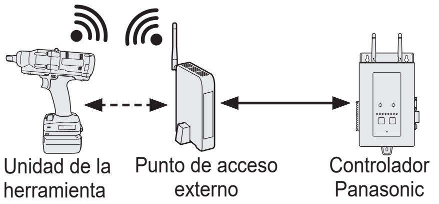
MID 0062 Last tightening result data acknowledge
Las revisiones 1 y 2 son compatibles. [Contenido] Confirmación de la carga del resultado de la fijación

MID 9999 Keep alive message
La revisión 1 es compatible. [Contenido] Comprobación de disponibilidad

CONEXIÓN A TRAVÉS DE UN PUNTO DE ACCESO EXTERNO

Configuración

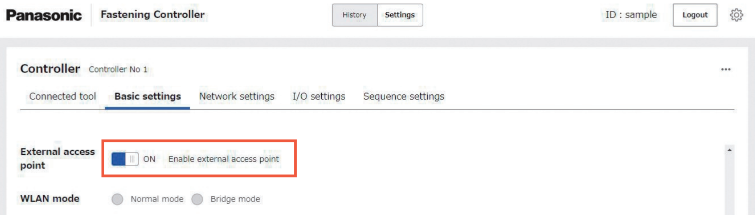
El controlador puede conectarse a las herramientas mediante comunicación inalámbrica utilizando un punto de acceso externo en lugar del punto de acceso integrado.
El controlador puede controlar las herramientas allí donde esté instalado.
Conecte el punto de acceso y el controlador a la LAN por cable.
* La cobertura inalámbrica y el rendimiento cambian en función del punto de acceso utilizado.

Conexión	Método de comunicación	Nota
 Unidad de la herramienta Punto de acceso externo Controlador Panasonic	Ethernet	• En la selección de modo, seleccione el punto de acceso interno o el punto de acceso externo. • Número máximo de herramientas conectadas: 8 * Tanto para el punto de acceso interno como para el punto de acceso externo

Procedimiento de ajuste

1 **En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior, seleccione la pestaña "Basic settings" y coloque "External access point" en "ON".**

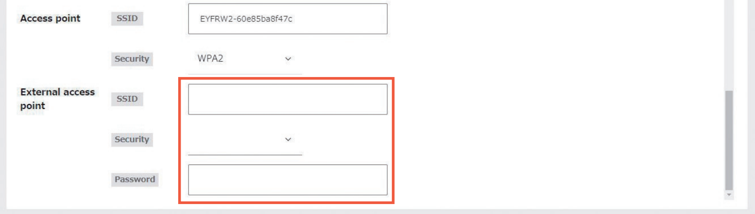
* "WLAN mode" se deshabilita cuando "External access point" está habilitado.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
WLAN mode
Normal mode
Bridge mode

External access point ON Enable external access point

2 **En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña "Network settings". En "External access point", ajuste "SSID", "Security" y "Password".**

* Solo puede registrar un SSID en el controlador. (No puede registrar diferentes SSID para diferentes herramientas)
* Consulte el Manual de instrucciones de su punto de acceso externo.
* Realice este ajuste antes de iniciar el registro del emparejamiento con las herramientas.
* Ajuste la dirección IP de la herramienta antes de iniciar el registro del emparejamiento.


External access point
SSID
Security
Password

Access point SSID EYFRW2-60e85ba8f47c
Security WPA2

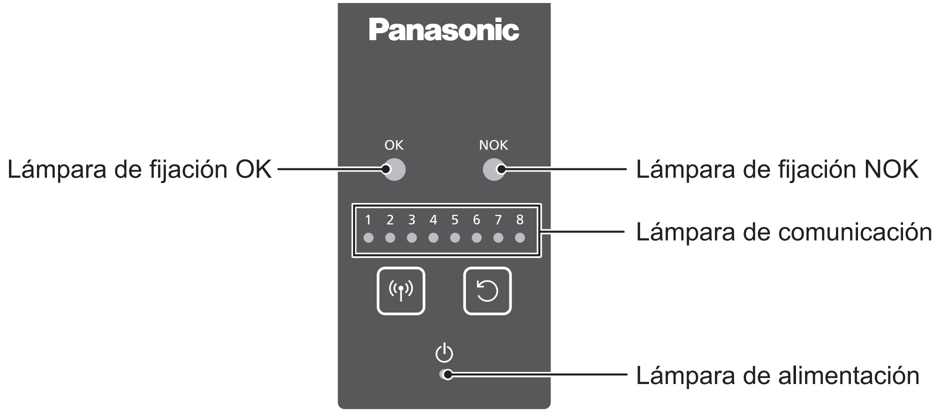
LÁMPARAS INDICADORAS Y ZUMBADOR

Lámparas indicadoras y un zumbador

Las lámparas indicadoras y el zumbador muestran el estado del controlador.

⚠ PRECAUCIÓN

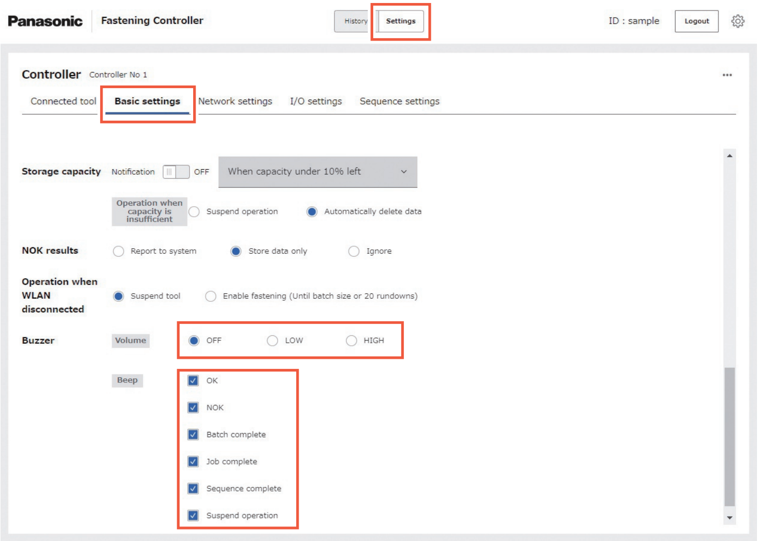
No apague el interruptor de alimentación mientras la lámpara esté parpadeando.
Es posible que se requiera la inicialización.


Panasonic
OK
NOK
1 2 3 4 5 6 7 8
Lámpara de fijación OK
Lámpara de fijación NOK
Lámpara de comunicación
Lámpara de alimentación

Estado	Lámpara indicadora	Zumbador
Alimentación encendida	Lámpara de alimentación (amarilla) Permanece encendida	–
Una herramienta a emparejar seleccionada	Lámpara de comunicación (azul) Parpadea lentamente	–
Emparejamiento establecido	Lámpara de comunicación (azul) Parpadea rápidamente	–
Emparejamiento completado	Lámpara de comunicación (azul) Permanece encendida	Un pitido corto ■
Emparejamiento no establecido	Lámpara de comunicación (azul) Parpadea muy lentamente	–
Emparejamiento desconectado	Lámpara de comunicación (azul) Apagada	–
Finalización de la fijación	Lámpara OK (verde) Permanece encendida	Un pitido corto ■
Fallo de fijación	Lámpara NOK (roja) Permanece encendida	Un pitido largo ▬
Finalización del Batch/job	Lámpara OK (verde) Parpadea dos veces	Dos pitidos cortos ■ ■
Secuencia completa	Lámpara OK (verde) Parpadea tres veces	Tres pitidos cortos ■ ■ ■
Error	Lámpara de alimentación (amarilla) Parpadea	Dos pitidos largos ▬ ▬

Ajuste del zumbador

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Basic settings”.
En “Buzzer”, ajuste “Volume” y “Beep”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Storage capacity — Notification: OFF — When capacity under 10% left

Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data

NOK results: ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected: ● Suspend tool ○ Enable fastening (Until batch size or 20 rundowns)

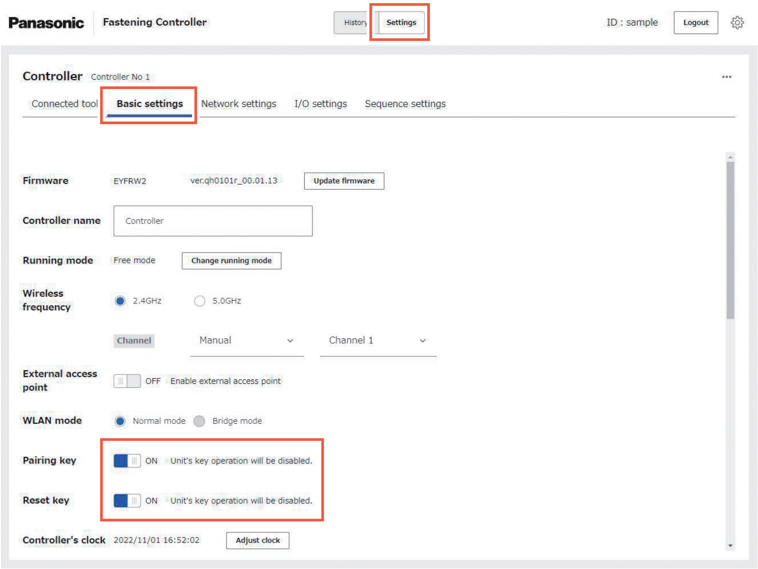
Buzzer — Volume: ● OFF ○ LOW ○ HIGH

Beep:
- ☑ OK
- ☑ NOK
- ☑ Batch complete
- ☑ Job complete
- ☑ Sequence complete
- ☑ Suspend operation

Elemento	Descripción
Volume	3 niveles (OFF / LOW / HIGH) (LOW: 75 dB, HIGH: 85 dB)
Beep	Seleccionado en PC para la configuración (OK / NOK / Batch complete / Job complete / Sequence complete / Suspend operation)

AJUSTE DE LAS TECLAS DE FUNCIONAMIENTO

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Basic settings”.
En “Pairing key” y “Reset key”, puede deshabilitar Pairing key y Reset key en el panel de control.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode
Adjust clock

Controller Controller No 1

Firmware EYFRW2 ver.qh0101r_00.01.13

Controller name Controller

Running mode Free mode

Wireless frequency ● 2.4GHz ○ 5.0GHz

Channel Manual Channel 1

External access point OFF Enable external access point

WLAN mode ● Normal mode ○ Bridge mode

Pairing key ON Unit's key operation will be disabled.

Reset key ON Unit's key operation will be disabled.

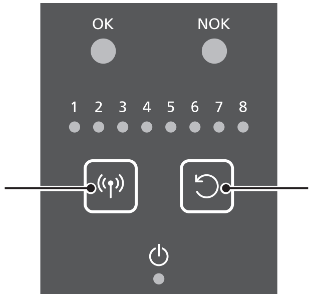
Controller's clock 2022/11/01 16:52:02

Pairing key

Active o desactive la tecla Emparejamiento en el panel de control.
[Predeterminado] ON
[Rango de ajuste] ON (habilitado)/OFF (deshabilitado)

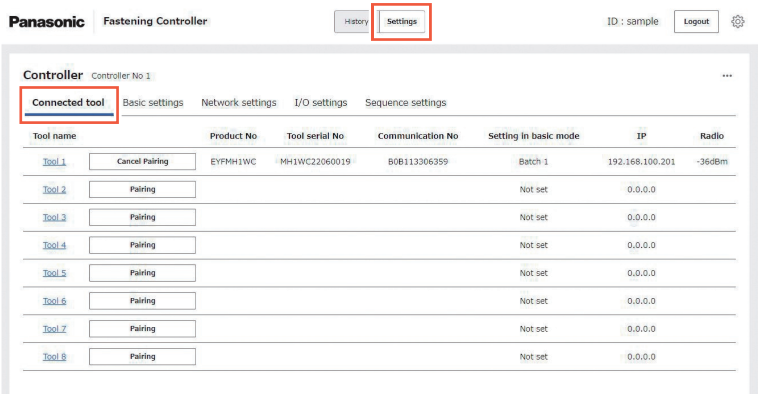
Reset key

Active o desactive la tecla Reiniciar en el panel de control.
[Predeterminado] ON
[Rango de ajuste] ON (habilitado)/OFF (deshabilitado)


OK
NOK
1
2
3
4
5
6
7
8
Tecla de emparejamiento
Tecla de reinicio

COMPROBACIÓN DE LA INFORMACIÓN DE LAS HERRAMIENTAS CONECTADAS

En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.
Puede ver la información y el estado de las herramientas conectadas al controlador.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings

Controller Controller No 1

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	IP	Radio
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	192.168.100.201	-36dBm
Tool 2	Pairing				Not set	0.0.0.0	
Tool 3	Pairing				Not set	0.0.0.0	
Tool 4	Pairing				Not set	0.0.0.0	
Tool 5	Pairing				Not set	0.0.0.0	
Tool 6	Pairing				Not set	0.0.0.0	
Tool 7	Pairing				Not set	0.0.0.0	
Tool 8	Pairing				Not set	0.0.0.0	

A continuación se muestran los elementos visualizados.

Tool name

Se visualiza el número de la herramienta registrada (del 1 al 8).

Tool serial No

Puede ajustar y visualizar la identificación de la unidad de la herramienta.
Predeterminado: 5 dígitos de identificación del modelo + 8 dígitos del número de serie (2 dígitos del año de fabricación + 2 dígitos del mes + 4 dígitos del lote de producción)

Product No

Se muestra el número de producto de la herramienta.

Communication No

Se muestra la identificación de la unidad (dirección MAC) de la parte de comunicación de la herramienta.

Setting in basic mode

Se muestra un comportamiento cuando Running mode está ajustado en “Repeat mode (Basic mode)”.

IP

Se muestra la dirección IP de la herramienta.

Radio

Se muestra la intensidad de la señal de radio (RSSI) recibida de la herramienta.
* Se muestra la fuerza en la última comunicación.
* No se puede medir y aparece “0dBm” cuando se utiliza un punto de acceso externo.

MONITOR DE TRABAJO

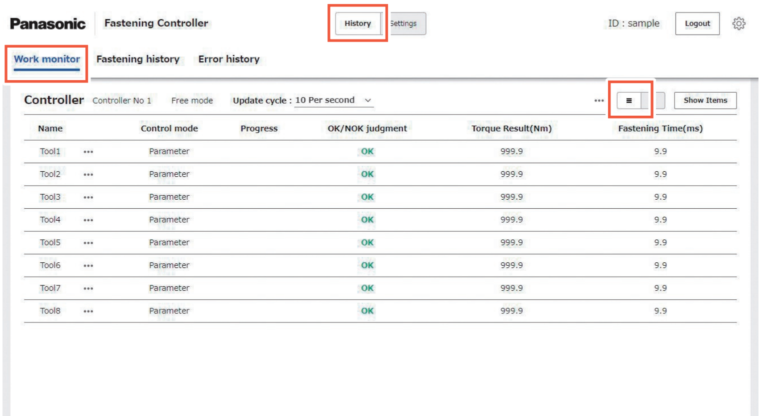
En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Work monitor”.
Se muestran los últimos registros del historial por herramienta. Puede utilizarlos para trabajar consultando los resultados del trabajo.

* Más de un PC para la configuración puede mostrarlos al mismo tiempo. (Hasta 8 accesos. Se aceptan múltiples accesos desde la misma cuenta).
* Para iniciar sesión con más de una cuenta, se recomienda el uso de diferentes PC.
* Para usar más de una cuenta en el mismo PC, se recomienda el uso de diferentes navegadores web.
* Solo se acepta un acceso a la función de configuración a la vez.

Cambio del formato de visualización

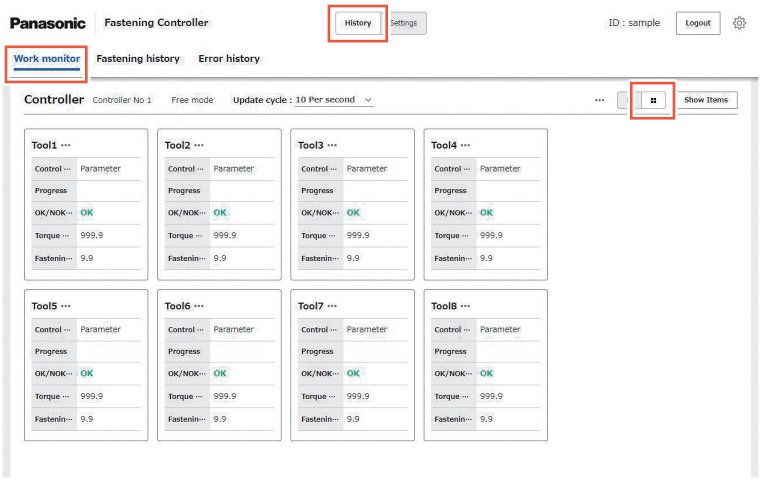
Puede seleccionar “Vista de lista” y “Vista de cuadrícula”.
Use el icono de vista en la parte superior derecha de la pantalla.

■ Vista de lista


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	Parameter		OK	999.9	9.9
Tool3	···	Parameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9
Tool6	···	Parameter		OK	999.9	9.9
Tool7	···	Parameter		OK	999.9	9.9
Tool8	···	Parameter		OK	999.9	9.9

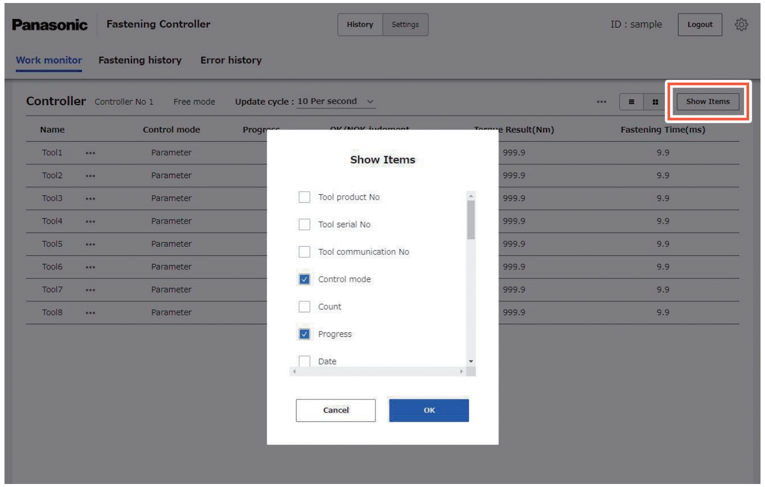
■ Vista de cuadrícula


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items

	Tool1 ···	Tool2 ···	Tool3 ···	Tool4 ···	Tool5 ···	Tool6 ···	Tool7 ···	Tool8 ···
Control ···	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter
Progress								
OK/NOK···	OK	OK	OK	OK	OK	OK	OK	OK
Torque ···	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9
Fastenin···	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

Selección de elementos a mostrar

Seleccione los elementos que desea mostrar utilizando “Show Items”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Cancel
OK

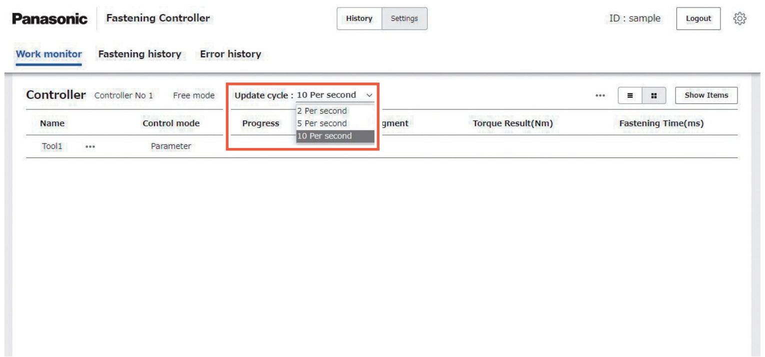
Show Items

☐ Tool product No
☐ Tool serial No
☐ Tool communication No
☑ Control mode
☐ Count
☑ Progress
☐ Date

* En “Vista de lista”, puede desplazarse hacia abajo y seleccionar muchos elementos para mostrarlos.
* En “Vista de cuadrícula”, puede mostrar hasta 5 elementos.

Selección del ciclo de actualización de la pantalla

Puede establecer la actualización automática de la pantalla.
Seleccione el ciclo de actualización de “2 Per second”, “5 Per second” y “10 Per second” como se indica a continuación.

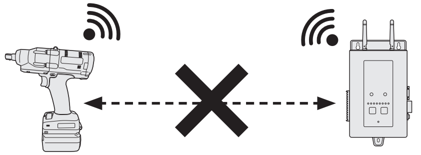

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Show Items
Name
Control mode
Progress
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter

Update cycle : 10 Per second
2 Per second
5 Per second
10 Per second

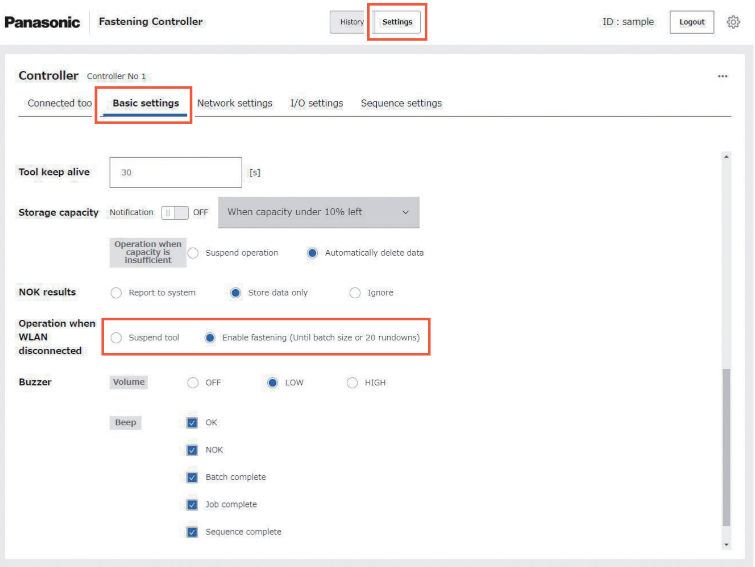
* Si se conecta un gran número de herramientas o PC para la configuración, se recomienda el ciclo de actualización de “10 Per second”. (Puede tardar algún tiempo en procesar los datos).

COMPORTAMIENTO DE LAS HERRAMIENTAS CON LA COMUNICACIÓN INALÁMBRICA DESCONECTADA

Puede continuar la fijación con los mismos parámetros en caso de interrupción temporal de la comunicación inalámbrica entre una herramienta y el controlador.



En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior y seleccione la pestaña “Basic settings”.
Si ajusta “Operation when WLAN disconnected” en “Suspend tool”, la fijación en curso finaliza tras la interrupción, pero no se realiza ninguna otra fijación.
Si ajusta “Enable fastening”, no se realizan más fijaciones una vez que la cantidad fijada ha alcanzado el límite superior.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
Connected too
Basic settings
Network settings
I/O settings
Sequence settings

Tool keep alive: 30 [s]

Storage capacity: Notification OFF; When capacity under 10% left

Operation when capacity is insufficient: ○ Suspend operation ● Automatically delete data

NOK results: ○ Report to system ● Store data only ○ Ignore

Operation when WLAN disconnected: ○ Suspend tool ● Enable fastening (Until batch size or 20 rundowns)

Buzzer: Volume ○ OFF ● LOW ○ HIGH

Beep: ☑ OK ☑ NOK ☑ Batch complete ☑ Job complete ☑ Sequence complete

Con “Enable fastening”, las cantidades del límite superior por modo son las siguientes.

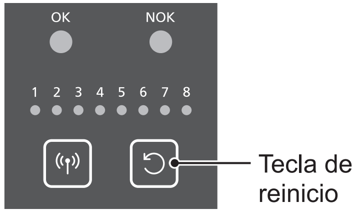
Modo		Comportamiento
Free mode		Continúa fijando hasta 20 tornillos
Repeat mode	Basic mode	Continúa apretando hasta el final del lote o hasta 20 tornillos
	Sequence mode	Continúa fijando hasta el final del lote o hasta 20 tornillos * Herramientas distintas de las afectadas siguen funcionando con normalidad.
External control mode		Continúa apretando hasta el final del lote o hasta 20 tornillos

REINICIO DEL RECUENTO DURANTE EL FUNCIONAMIENTO

Para cambiar los ajustes, detenga el control de fijación mediante el controlador si está en curso. Aparece un cuadro de diálogo de confirmación cuando se aplica el cambio. Puede reiniciar las cantidades contadas por “Uso de la tecla en la unidad” o “Ajuste en la pantalla de ajustes”.
* Esto no se aplica a “Free mode”.

Uso de la tecla en la unidad

Mantenga pulsada la tecla Reiniciar en el controlador 3 segundos o más.
* Se reinician las cantidades de todas las herramientas activas.


OK
NOK
1 2 3 4 5 6 7 8

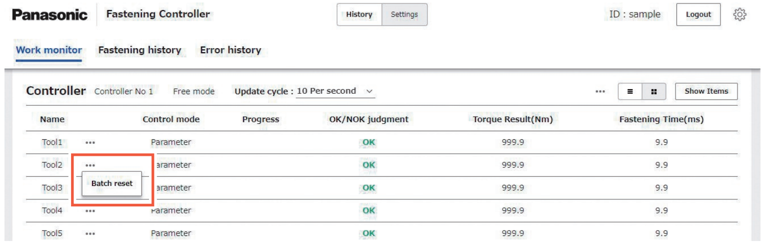
Tecla de reinicio

Ajuste en la pantalla de ajustes

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Work monitor”.

■ Para restablecer las cantidades por herramienta

En la pantalla “Work monitor”, haga clic en ··· (tecla de opción de la herramienta) y luego en [Batch reset] del numero de herramienta deseado.

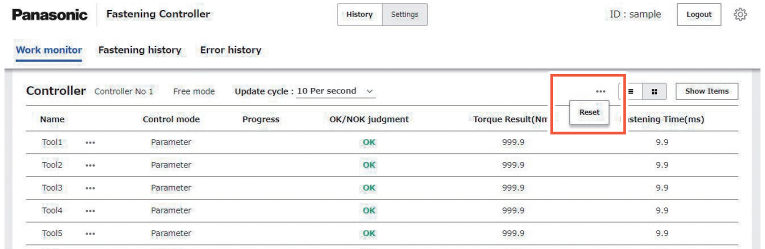

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Batch reset

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	arameter		OK	999.9	9.9
Tool3		arameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

■ Para restablecer las cantidades de todas las herramientas de forma colectiva

En la pantalla “Work monitor”, haga clic en ··· (tecla de opción del controlador) y luego en [Reset] en la parte superior derecha.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Show Items
Reset

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	···	Parameter		OK	999.9	9.9
Tool2	···	Parameter		OK	999.9	9.9
Tool3	···	Parameter		OK	999.9	9.9
Tool4	···	Parameter		OK	999.9	9.9
Tool5	···	Parameter		OK	999.9	9.9

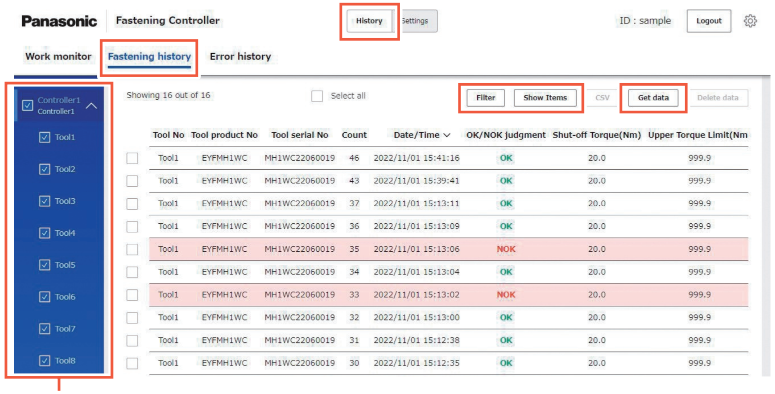
* En el Sequence mode, las cantidades se restablecen hasta la primera herramienta.

COMPROBACIÓN DE LOS DATOS DEL HISTORIAL DE FIJACIÓN

Visualización de los datos del historial de fijación

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Fastening history”.
Puede ver los datos del historial de fijación enviados desde las herramientas al controlador.
Para visualizar los datos, seleccione el controlador y las herramientas deseados en la lista de herramientas a la izquierda y haga clic en [Get data] en la parte superior derecha.
Los registros del historial de fijación se muestran del más reciente al más antiguo.

* Para el contenido de los elementos del historial de fijación, consulte el Manual de instrucciones de la herramienta.

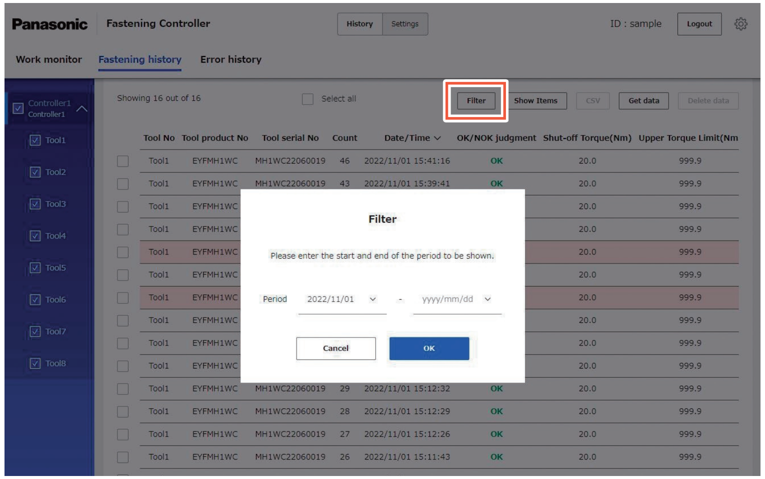

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Showing 16 out of 16
Select all
Filter
Show Items
CSV
Get data
Delete data

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Lista de herramientas

Extracción de los registros del historial de fijación por período de tiempo

Haga clic en [Filter] y especifique el período de tiempo para limitar los registros del historial de fijación a visualizar.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Filter
Show Items
CSV
Get data
Delete data
Cancel
OK

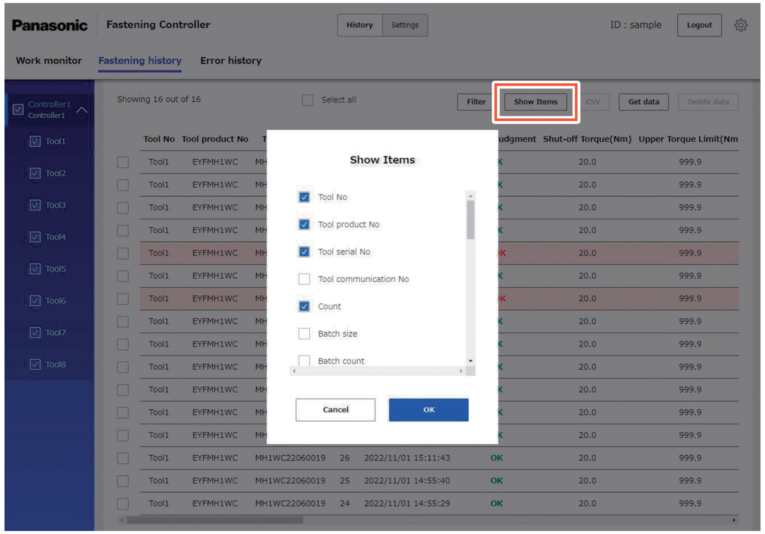
Filter

Please enter the start and end of the period to be shown.

Period 2022/11/01 - yyyy/mm/dd

Elementos de ajuste a visualizar

Para cambiar los elementos visualizados, haga clic en [Show Items] y seleccione los elementos deseados.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Filter
Show Items
CSV
Get data
Delete data
Cancel
OK

Show Items

☑ Tool No
☑ Tool product No
☑ Tool serial No
☐ Tool communication No
☑ Count
☐ Batch size
☐ Batch count

Capacidad para los datos del historial de fijación

El controlador puede almacenar un máximo de unos 200,000 registros del historial de fijación (incluidos los datos de forma de onda).
Suspende el funcionamiento o borra automáticamente los registros (sobrescribiéndolos) si recibe más registros.
Se recomienda exportar periódicamente los registros en formato CSV según sea necesario consultando la guía que figura a continuación.

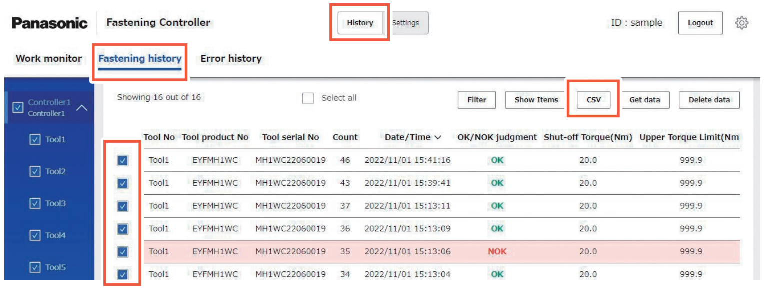
Tiempo estimado para alcanzar la plena capacidad de almacenamiento

	Cantidad por día por herramienta		
Número de herramientas	**1,000**	**3,000**	**5,000**
2	Aproximadamente 100 días	Aproximadamente 33 días	Aproximadamente 20 días
4	Aproximadamente 50 días	Aproximadamente 16 días	Aproximadamente 10 días
8	Aproximadamente 25 días	Aproximadamente 8 días	Aproximadamente 5 días

COMPROBACIÓN DE LOS DATOS DEL HISTORIAL DE FIJACIÓN (cont.)

Exportación de los datos del historial de fijación en formato CSV

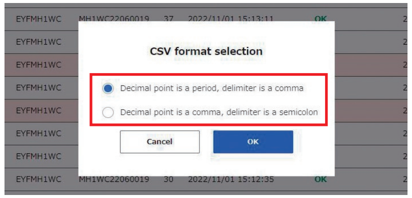
En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Fastening history”.
Seleccione los registros deseados y haga clic en [CSV].
Los registros del historial de fijación se exportan en formato CSV.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
☑ Controller1 Controller1
☑ Tool1
☑ Tool2
☑ Tool3
☑ Tool4
☑ Tool5
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16 ☐ Select all

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9

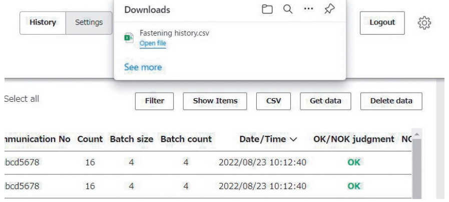
Puede seleccionar entre “Decimal point is a period, delimiter is a comma” y “Decimal point is a comma, delimiter is a semicolon”.



CSV format selection

● Decimal point is a period, delimiter is a comma
○ Decimal point is a comma, delimiter is a semicolon

▶


History
Settings
Downloads
Logout
Open file
See more
Filter
Show Items
CSV
Get data
Delete data

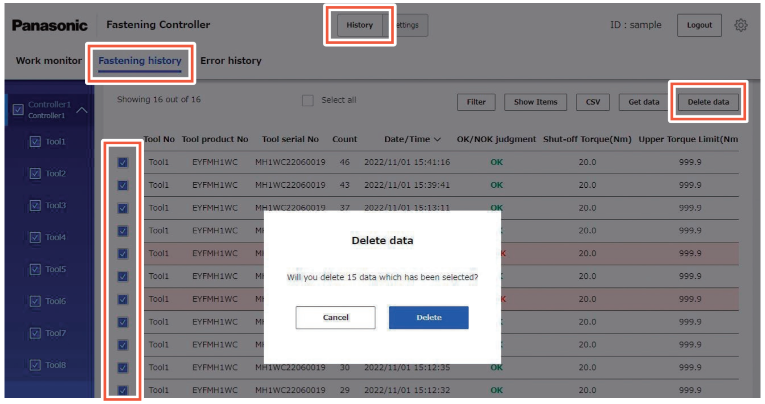
Fastening history.csv

Select all

mmunication No	Count	Batch size	Batch count	Date/Time	OK/NOK judgment	NC
bcd5678	16	4	4	2022/08/23 10:12:40	OK	
bcd5678	16	4	4	2022/08/23 10:12:40	OK	

Borrado de los datos del historial de fijación

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Fastening history”.
Seleccione los registros deseados y haga clic en [Delete data].
Se borran los registros del historial de fijación.


Panasonic
Fastening Controller
History
ettings
ID : sample
Logout
Work monitor
Fastening history
Error history
☑ Controller1 Controller1
☑ Tool1
☑ Tool2
☑ Tool3
☑ Tool4
☑ Tool5
☑ Tool6
☑ Tool7
☑ Tool8
Filter
Show Items
CSV
Get data
Delete data
Cancel
Delete

Showing 16 out of 16 ☐ Select all

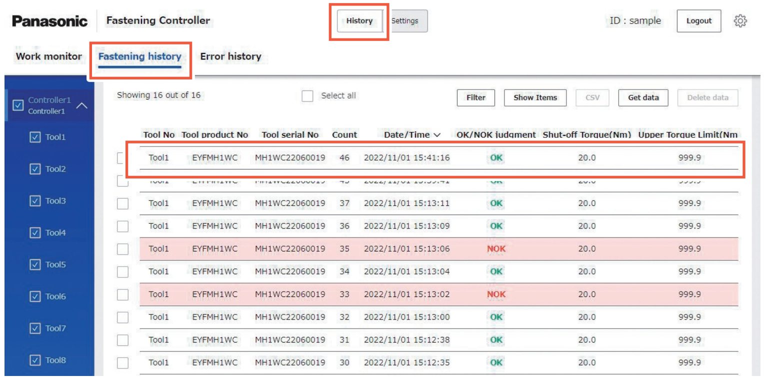
	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☑	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	43	2022/11/01 15:39:41	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC					20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9
☑	Tool1	EYFMH1WC	MH1WC22060019	29	2022/11/01 15:12:32	OK	20.0	999.9

Delete data

Will you delete 15 data which has been selected?

Visualización de los datos de forma de onda

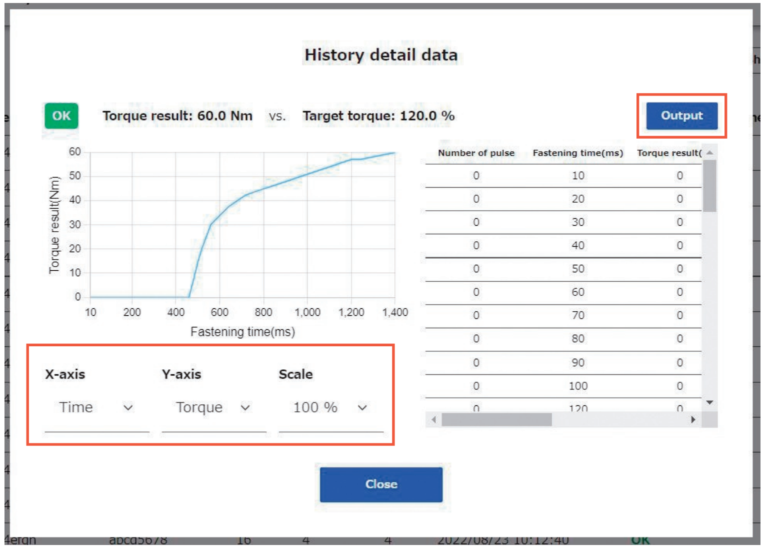
En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Fastening history”.
Si ha habilitado la opción de guardar datos de forma de onda, puede hacer doble clic en la fila del registro histórico de fijaciones deseado para mostrar una ventana emergente de datos de forma de onda.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
☑ Controller1 Controller1
☑ Tool1
☑ Tool2
☑ Tool3
☑ Tool4
☑ Tool5
☑ Tool6
☑ Tool7
☑ Tool8
Filter
Show Items
CSV
Get data
Delete data

Showing 16 out of 16 ☐ Select all

	Tool No	Tool product No	Tool serial No	Count	Date/Time	OK/NOK judgment	Shut-off Torque(Nm)	Upper Torque Limit(Nm
☐	Tool1	EYFMH1WC	MH1WC22060019	46	2022/11/01 15:41:16	OK	20.0	999.9
☐								
☐	Tool1	EYFMH1WC	MH1WC22060019	37	2022/11/01 15:13:11	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	36	2022/11/01 15:13:09	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	35	2022/11/01 15:13:06	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	34	2022/11/01 15:13:04	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	33	2022/11/01 15:13:02	NOK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	32	2022/11/01 15:13:00	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	31	2022/11/01 15:12:38	OK	20.0	999.9
☐	Tool1	EYFMH1WC	MH1WC22060019	30	2022/11/01 15:12:35	OK	20.0	999.9

Puede ajustar la visualización seleccionando “X-axis”, “Y-axis” y “Scale”.
Hacer clic en [Output] exporta los datos en formato CSV.


OK
Output
Torque result(Nm)
60
50
40
30
20
10
0
10
200
400
600
800
1,000
1,200
1,400
Fastening time(ms)
Close

History detail data

Torque result: 60.0 Nm vs. Target torque: 120.0 %

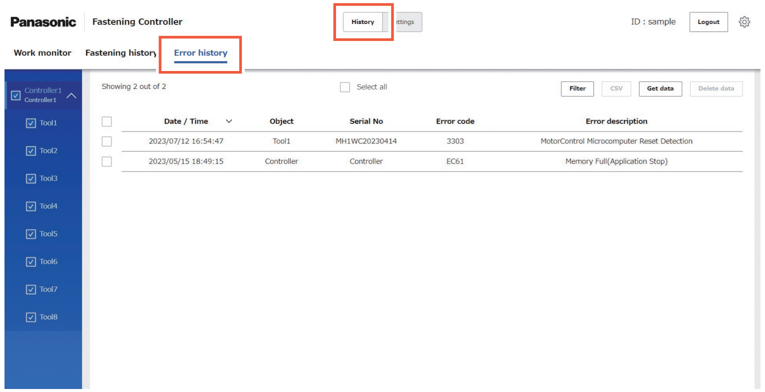
X-axis Time
Y-axis Torque
Scale 100 %

Number of pulse	Fastening time(ms)	Torque result(
0	10	0
0	20	0
0	30	0
0	40	0
0	50	0
0	60	0
0	70	0
0	80	0
0	90	0
0	100	0
0	120	0

* Ajuste “Graph sending timing” en “Device settings” a “After every fastening”.

Visualización del historial de errores

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [History] en la parte superior y seleccione la pestaña “Error history”.
Se muestra el historial de errores que se han producido.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller1
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
Tool8
Select all
Filter
CSV
Get data
Delete data

Showing 2 out of 2

Date / Time	Object	Serial No	Error code	Error description
2023/07/12 16:54:47	Tool1	MH1WC20230414	3303	MotorControl Microcomputer Reset Detection
2023/05/15 18:49:15	Controller	Controller	EC61	Memory Full(Application Stop)

A continuación se muestran los elementos visualizados.
* Para el contenido del error, consulte “CÓDIGO DE ERROR”. **Consulte P90**

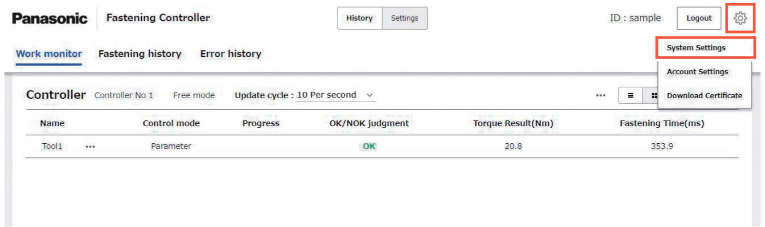
Elemento	Descripción
Date / Time	Se muestran la fecha y la hora de la ocurrencia del error.
Object	Se muestra el dispositivo (e controlador o cualquiera de las herramientas del 1 al 8) que causa un error.
Serial No	Se muestra el número de serie del dispositivo (el controlador o cualquiera de las herramientas 1 a 8) que causa un error.
Error code	Se visualiza un código de error que ha ocurrido.
Error description	Se muestra el contenido de un error que se ha producido.

AJUSTES DEL SISTEMA

Cambio del idioma

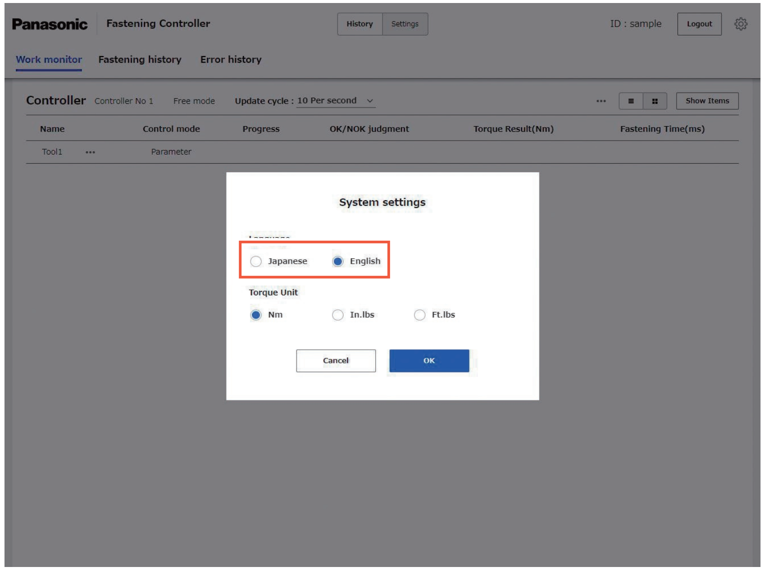
Puede seleccionar “Japanese” o “English”.

1 **En la página superior (la página inicial de la pantalla de ajustes), haga clic en la tecla de opción de la parte superior derecha y seleccione “System Settings”.**
Se visualiza la pantalla “System settings”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
System Settings
Account Settings
Download Certificate
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second

Name	Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1 ···	Parameter		OK	20.8	353.9

2 **Seleccione el idioma en la pantalla “System settings”.**
Puede seleccionar “Japanese” o “English”.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Work monitor
Fastening history
Error history
Controller
Controller No 1
Free mode
Update cycle : 10 Per second
Show Items
Name
Control mode
Progress
OK/NOK judgment
Torque Result(Nm)
Fastening Time(ms)
Tool1
Parameter
Cancel
OK

System settings

Language
○ Japanese ● English

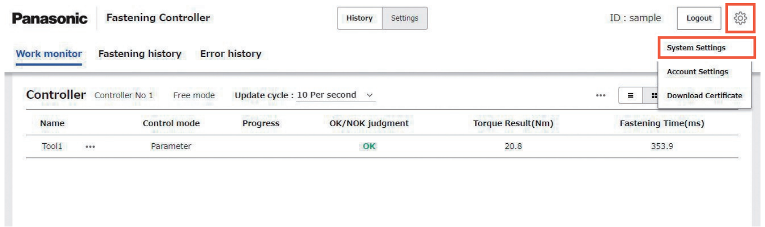
Torque Unit
● Nm ○ In.lbs ○ Ft.lbs

Cambio de la unidad de par de torsión a visualizar

Puede seleccionar “Nm”, “In.lbs” o “Ft.lbs”.

1 **En la página superior (la página inicial de la pantalla de ajustes), haga clic en la tecla de opción de la parte superior derecha y seleccione “System Settings”.**

Se visualiza la pantalla “System settings”.



Panasonic Fastening Controller

History | Settings

ID : sample

Logout

Work monitor | Fastening history | Error history

System Settings

Account Settings

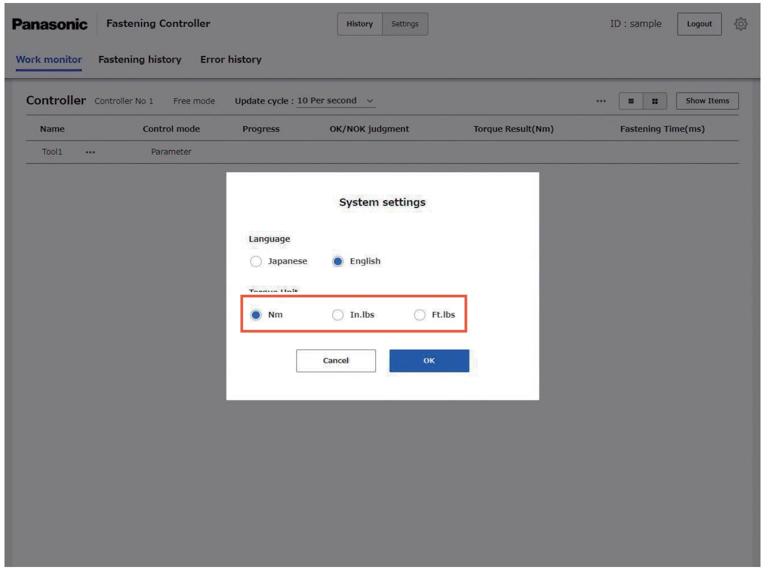
Download Certificate

Controller Controller No 1 Free mode Update cycle : 10 Per second

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter		OK	20.8	353.9

2 **Seleccione la unidad del par en la pantalla “System settings”.**

Puede seleccionar la unidad de par de entre “Nm”, “In.lbs” y “Ft.lbs”.



Panasonic Fastening Controller

History | Settings

ID : sample

Logout

Work monitor | Fastening history | Error history

Controller Controller No 1 Free mode Update cycle : 10 Per second

Show Items

Name		Control mode	Progress	OK/NOK judgment	Torque Result(Nm)	Fastening Time(ms)
Tool1	•••	Parameter				

System settings

Language

○ Japanese ● English

Torque Unit

● Nm ○ In.lbs ○ Ft.lbs

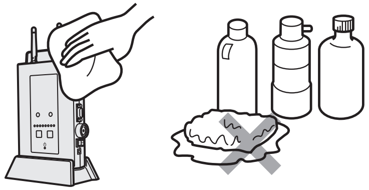
Cancel | OK

LIMPIEZA Y ALMACENAMIENTO

Cómo limpiar

Limpieza con un paño suave

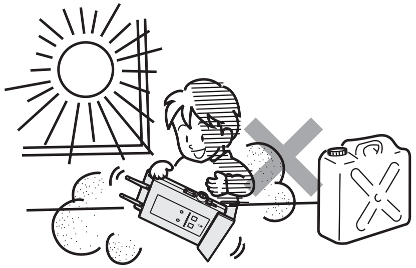
No utilice paños húmedos, diluyente, alcohol, bencina u otros líquidos volátiles.
(Causa de decoloración, deformación o grietas)



Cómo almacenar

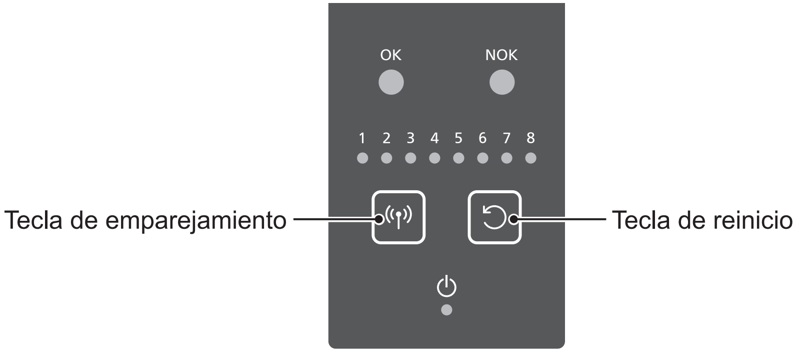
Evite las siguientes condiciones durante el almacenamiento.

- Cabina del coche u otros lugares calientes
- Lugares expuestos a la luz solar directa
- Lugares expuestos al agua o a la humedad
- Lugares con mucho polvo o cuerpos extraños
- Lugares al alcance de los niños
- Lugares con gasolina u otros productos inflamables
- Lugares con riesgo de caída



Inicialización del controlador

Para inicializar (restablecimiento de fábrica) el controlador, mantenga pulsadas simultáneamente la tecla Emparejamiento y la tecla Reiniciar 10 segundos o más.



Tecla de emparejamiento

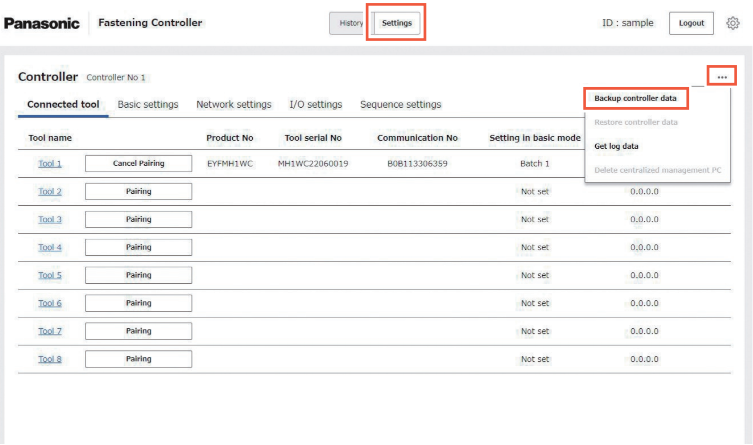
Tecla de reinicio

* Puede tardar más de 5 minutos dependiendo del uso de almacenamiento.
* No puede realizarla cuando las teclas de la unidad están deshabilitadas.
Consulte P66

LIMPIEZA Y ALMACENAMIENTO (cont.)

Realización de una copia de seguridad de los ajustes

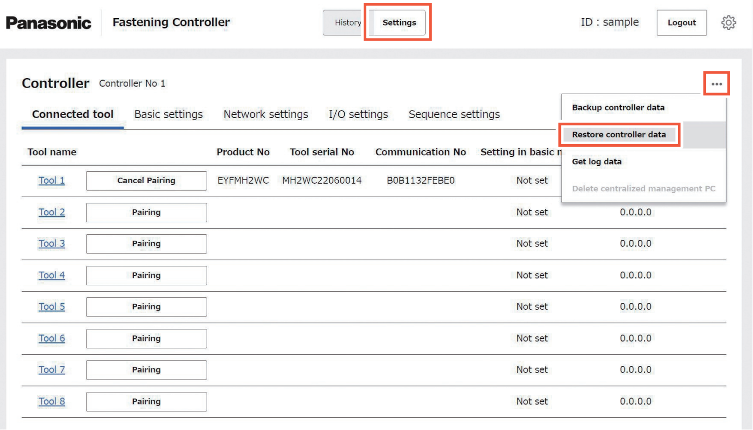
En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior.
Haga clic en ··· (tecla de opción del controlador) y luego en [Backup controller data].
Puede realizar una copia de seguridad de los ajustes del controlador y de las herramientas.
* No se realiza una copia de seguridad de los datos del historial de fijación. Expórtelos en formato CSV si es necesario.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Restauración de los ajustes

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior.
Haga clic en ··· (tecla de opción del controlador) y luego en [Restore controller data].
Puede restaurar los ajustes del controlador y las herramientas desde su copia de seguridad.
* No puede realizarlo durante el control de fijación.
* No puede realizarlo al registrar el emparejamiento con herramientas. Cancele el emparejamiento.

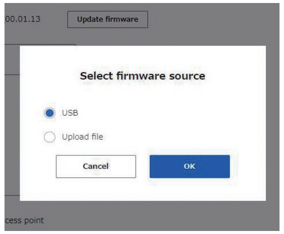

Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic n	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

Actualización del firmware

Puede actualizar el firmware del controlador y la parte de comunicación de la herramienta.

Utilice una de las siguientes opciones para actualizar el firmware.
① Uso del puerto USB del controlador.
 * No se puede utilizar una memoria USB con bloqueo por contraseña.
 * Guarde solo archivo de datos de firmware directamente en una unidad flash USB sin crear una carpeta.
② Escritura desde el PC para la configuración.
 * Al seleccionar “Upload file”, seleccione el archivo de datos de firmware guardado en el PC en la pantalla de selección.

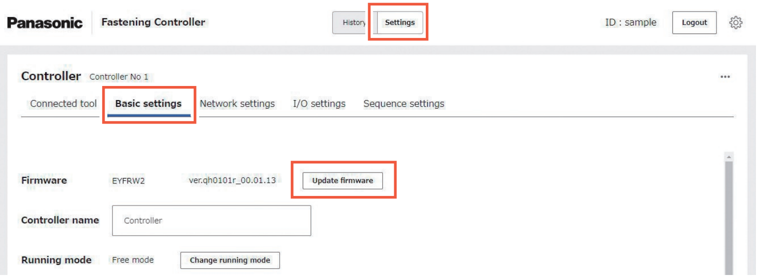

00.01.13
Update firmware
Select firmware source
Cancel
OK
cess point

● USB
○ Upload file

Para obtener la versión actual del firmware, visite nuestro sitio web. **Consulte P2**
O póngase en contacto con nuestra persona de ventas.

■ Para el controlador

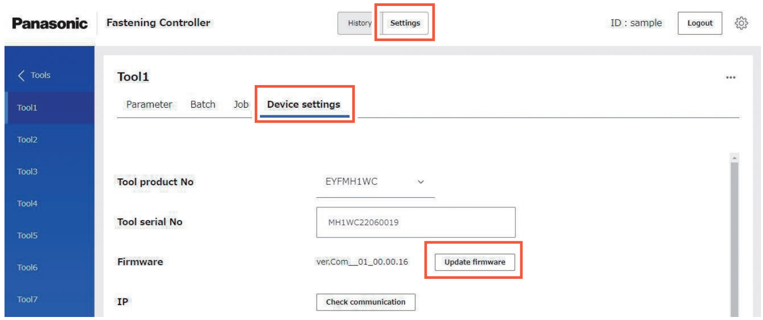
En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior, seleccione la pestaña “Basic settings” y haga clic en [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Update firmware
Change running mode

Firmware EYFRW2 ver.qh0101r_00.01.13
Controller name: Controller
Running mode: Free mode

■ Para la parte de comunicación de la herramienta

En la página superior (la página inicial de la pantalla de configuración), haga clic en [Settings] en la parte superior y seleccione la pestaña “Connected tool”.
En la pantalla “Connected tool”, haga clic en el número de herramienta deseado.
Desde la pestaña “Device settings” en la pantalla para el número de herramienta, haga clic en [Update firmware].


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Tools
Tool1
Tool2
Tool3
Tool4
Tool5
Tool6
Tool7
···
Parameter
Batch
Job
Device settings
Update firmware
Check communication

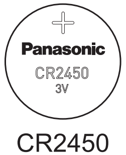
Tool1
Tool product No: EYFMH1WC
Tool serial No: MH1WC22060019
Firmware: ver.Com__01_00.00.16
IP

LIMPIEZA Y ALMACENAMIENTO (cont.)

Sustitución de la pila de botón

Para mantener en funcionamiento el reloj (RTC) del controlador, sustituya la pila de botón consultando la siguiente guía de sustitución.

■ Tipo de pila



CR2450

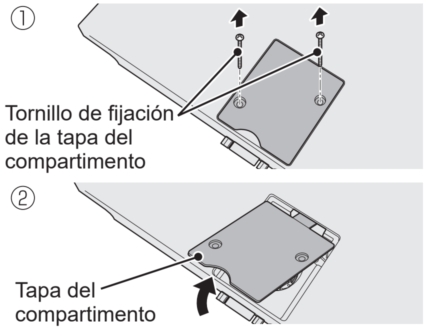
■ Guía de sustitución

La pila de botón se utiliza para mantener el reloj en funcionamiento cuando el controlador está apagado.
Para minimizar su consumo, en principio, no apague el control.

La alimentación está encendida 12 horas al día (solo los días laborales)	La alimentación está siempre encendida
Aproximadamente 3 años	Aproximadamente 8 años

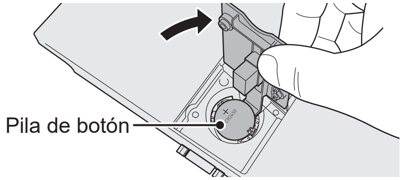
Sustitúyala con el siguiente procedimiento o póngase en contacto con su distribuidor.
Se recomienda que una persona que tenga conocimientos eléctricos realice el trabajo.

1 **Extraiga los 2 tornillos de fijación de la tapa del compartimento y, a continuación, retire la tapa del compartimento.**

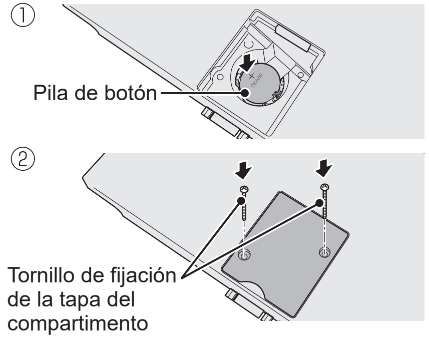


2 **Usando la tapa del compartimento, saque la pila de botón.**

Coja la pila de botón con el gancho de la tapa del compartimento.



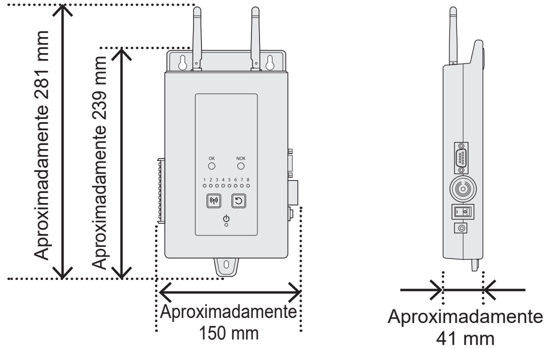
3 **Coloque una nueva pila de botón y coloque la tapa del compartimento con los 2 tornillos de fijación de la tapa del compartimento.**



CAPACIDAD Y ESPECIFICACIONES

Especificaciones del controlador

Recepción de señales de finalización y fallo de fijación durante los trabajos de montaje de productos de interior

Núm. de modelo	EYFRW2
Fuente de alimentación	100 V-240 V CA, 50/60 Hz
Estándar de comunicación inalámbrica	LAN inalámbrica (IEEE.802.11 a/b/g/n)
Banda de frecuencia	2,4 GHz: de 2,412 GHz a 2,472 GHz 5 GHz: de 5,180 GHz a 5,240 GHz
Canal	2,4 GHz: de 1 a 13 canales 5 GHz: 36, 40, 44, 48 canales
Poder de transmisión [*1]	2,4 GHz: 89 mW 5 GHz: 141 mW
Cobertura	2,4 GHz: aproximadamente 16 m 5 GHz: aproximadamente 10 m
Número de herramientas que se pueden registrar	8 (máximo)
Terminales de entrada/salida (E/S)	8 entradas y 8 salidas
Clasificación del terminal de entrada	24 V CC, 50 mA
Clasificación del terminal de salida	30 V CC, 3 A
Consumo de energía	Aproximadamente 30 W
Intervalos de temperatura y humedad de funcionamiento	De 0 °C a 45 °C, del 20 % al 90 %
Tamaño (dimensiones estimadas) **Longitud total × Altura total × Anchura**	Aproximadamente 150 × 239 × 41 mm (altura incluyendo las antenas: 281 mm) 
Masa (Peso)	Alrededor de 550 g (unidad principal solamente)
Interfaz de comunicación	Ethernet × 2, RS232C × 1, USB-A × 1
Número de datos que se pueden almacenar	Aproximadamente 200,000 registros del historial de fijación (incluyendo datos de forma de onda)
Modelos de herramientas compatibles	EYFMH1WC, EYFMH2WC, EYFMH1WP, EYFMH2WP

[*1] El poder de transmisión ha sido medido por una organización externa.

Especificaciones inalámbricas

Frecuencias por canal

Banda de frecuencia	Canal	Frecuencia
2,4 GHz	Canal 1	2,412 GHz
	Canal 2	2,417 GHz
	Canal 3	2,422 GHz
	Canal 4	2,427 GHz
	Canal 5	2,432 GHz
	Canal 6	2,437 GHz
	Canal 7	2,442 GHz
	Canal 8	2,447 GHz
	Canal 9	2,452 GHz
	Canal 10	2,457 GHz
	Canal 11	2,462 GHz
	Canal 12	2,467 GHz
	Canal 13	2,472 GHz
5 GHz	Canal 36	5,180 GHz
	Canal 40	5,200 GHz
	Canal 44	5,220 GHz
	Canal 48	5,240 GHz

Especificaciones WebUI

SO compatible	Windows 10 o posterior (compatible con cualquiera de los siguientes navegadores web)
Navegador web compatible	Microsoft Edge versión 102 o posterior o Google Chrome versión 102 o posterior
Idioma compatible	Español, Japonés
Resolución de pantalla recomendada	1024 × 768 o superior

PRECAUCIÓN

- Algunos PC no están disponibles incluso si cumplen con el entorno operativo.
- En función del entorno de uso, etc., de su PC, las descripciones y pantallas de este Manual de instrucciones podrían ser diferentes de las descripciones y pantallas reales.
  Por favor, téngalo en cuenta.
- El contenido de este Manual de instrucciones está sujeto a cambios sin previo aviso.
- Cualquier reproducción del contenido de este Manual de instrucciones, en su totalidad o en parte, está prohibida sin permiso.
- Las descripciones sobre cómo operar Windows en este Manual de instrucciones usan los procedimientos y pantallas de Windows 10.
- WebUI no funciona en un SO distinto al SO compatible.
- No se garantiza el funcionamiento para todos los PC que cumplan con el entorno recomendado.

■ Condiciones de uso (lea antes del uso)

<Limitaciones>

WebUI es el software de configuración para EYFRW2.

PRECAUCIÓN

- Tenga en cuenta lo siguiente cuando utilice la función.
  Se considera que está de acuerdo con los siguientes términos de uso usando la función.

[Condiciones de uso]

Panasonic no ofrece ninguna garantía de ningún tipo con respecto a la función.
Panasonic no se hace responsable de ningún daño, incluidos, aunque sin limitarse a ellos, los daños directos, indirectos, por propagación, consecuentes y especiales causados por el uso o funcionamiento de la función.
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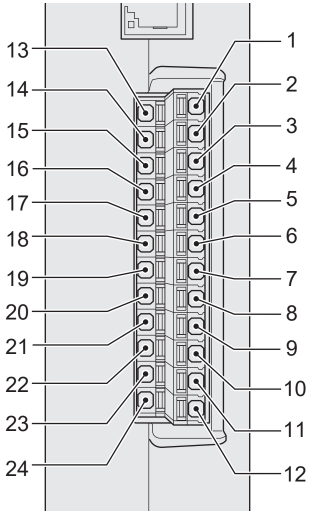
CAPACIDAD Y ESPECIFICACIONES (cont.)

Especificaciones de E/S de contacto

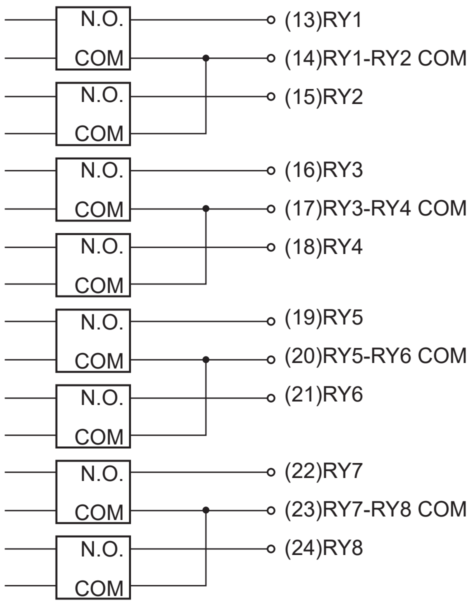
Asignación entre terminales de relé de salida y terminales de entrada

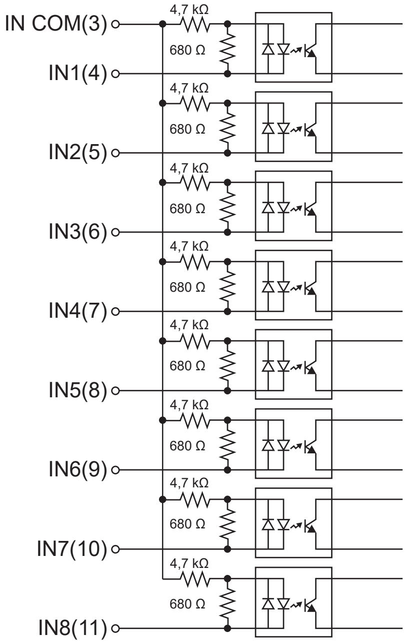

13
14
15
16
17
18
19
20
21
22
23
24
1
2
3
4
5
6
7
8
9
10
11
12

Núm.	Asignación de contactos
1	+24 V
2	+24 V
3	IN COM
4	IN 1
5	IN 2
6	IN 3
7	IN 4
8	IN 5
9	IN 6
10	IN 7
11	IN 8
12	24 V return

Núm.	Asignación de contactos
13	RY1
14	RY1-RY2 COM
15	RY2
16	RY3
17	RY3-RY4 COM
18	RY4
19	RY5
20	RY5-RY6 COM
21	RY6
22	RY7
23	RY7-RY8 COM
24	RY8

Diagrama de conexión del bloque de terminales


N.O.
COM
(13)RY1
(14)RY1-RY2 COM
(15)RY2
(16)RY3
(17)RY3-RY4 COM
(18)RY4
(19)RY5
(20)RY5-RY6 COM
(21)RY6
(22)RY7
(23)RY7-RY8 COM
(24)RY8


IN COM(3)
IN1(4)
IN2(5)
IN3(6)
IN4(7)
IN5(8)
IN6(9)
IN7(10)
IN8(11)
4,7 kΩ
680 Ω

CERTIFICACIÓN DE RADIO

PRECAUCIONES PARA LA COMUNICACIÓN INALÁMBRICA

Precauciones al utilizar un dispositivo WLAN

El dispositivo utiliza una banda de frecuencia compartida con otros tipos de equipos, incluidos dispositivos industriales, científicos y médicos (por ejemplo, un microondas) y estaciones de radio como una estación de radio local (con licencia) y una estación de radio de baja potencia (con licencia) para la identificación móvil utilizada en las líneas de fabricación de fábrica y una estación de radio de aficionados (con licencia).

1. Antes de usar el dispositivo, confirme que no haya instalaciones o estaciones de radio de baja potencia para la identificación móvil o que no haya emisoras de radioaficionados en las cercanías.
2. Si el dispositivo causa interferencias perjudiciales con una estación de radio local para la identificación móvil, detenga inmediatamente el uso de la banda y consulte el centro de asistencia siguiente para la solución del problema de interferencia (por ejemplo, instalación de una partición).
3. Si el dispositivo causa interferencias dañinas con un local o estación de radio de baja potencia para la identificación móvil o una estación de radioaficionados u otros problemas, consulte con el centro de asistencia.

CERTIFICACIÓN DE RADIO (cont.)

■ Puede haber ruido, menor cobertura de radio o mal funcionamiento en las siguientes condiciones ambientales.

- Hay una obstrucción (por ejemplo, un objeto metálico o de concreto reforzado) que impide la propagación uniforme de la radio entre la unidad de herramienta con conexión inalámbrica y el controlador.
- Las antenas del controlador están cubiertas de metal.
- El cuerpo de un operador está interfiriendo con la propagación de la radio entre un operador (la unidad de herramienta con conexión inalámbrica) y el controlador.
- Hay cerca un microondas, un PC o cualquier otro dispositivo que genere ruido.
- Se utiliza un teléfono móvil o un teléfono PHS cerca de la unidad de herramienta con conexión inalámbrica y el controlador.

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Información de contacto: oss-cd-powertools-gl@ml.jp.panasonic.com

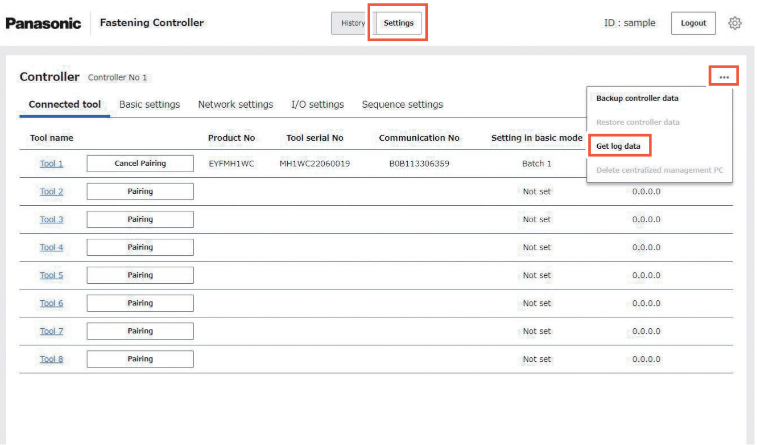
CÓDIGO DE ERROR

Dispositivo	Código de error	Tipo	Categoría	Evento	Acción
Controlador	0xEF21	Advertencia	Fallo de hardware	Error de la CPU secundaria (fallo)	Reinicie el controlador. Si el problema persiste, es posible que el dispositivo esté roto. Póngase en contacto con su distribuidor.
	0xEF51	Advertencia	Fallo de hardware	Error Ether0	El dispositivo podría estar roto. Póngase en contacto con su distribuidor.
	0xEF52	Advertencia	Fallo de hardware	Error Ether1	El dispositivo podría estar roto. Póngase en contacto con su distribuidor.
	0xEF61	Advertencia	Fallo de hardware	Error del módulo Wi-Fi (fallo)	Reinicie el controlador. Si el problema persiste, es posible que el dispositivo esté roto. Póngase en contacto con su distribuidor.
	0xCE42	Error	Fallo de software	Error de contenido del ajuste	Restablezca los ajustes de fábrica del controlador y vuelva a realizar los ajustes.
	0xCE43	Error	Fallo de software	Error de información de retracción	Mantenga pulsada la tecla de reinicio en el controlador 3 segundos o más.
	0xEC61	Advertencia	Fallo de software	La capacidad para almacenar el historial de fijación está llena (funcionamiento suspendido)	Borre los registros del historial de fijación en la pantalla del historial de fijación para liberar cierta capacidad. Expórtelos antes de borrarlos si es necesario.
Herramienta	0x4301	Precaución	Fallo de software	La capacidad de almacenamiento está llena	Acceda al software de configuración de la herramienta (software Tool Manager) y borre los registros del historial de trabajo.
	0x4302	Precaución	Fallo de software	El número de resultados de envío en una cola ha alcanzado el límite superior.	La herramienta no se puede comunicar con el controlador. Cambie el lugar de trabajo. Si el problema persiste, es posible que el dispositivo esté roto. Póngase en contacto con su distribuidor.
	0x3303	Error	Fallo de software	Restablecimiento del microcontrolador de control del motor detectado	Se ha resuelto un error.
	0x3304	Error	Fallo de software	Restablecimiento del microcontrolador de cálculo de par detectado	Se ha resuelto un error.

Dispositivo	Código de error	Tipo	Categoría	Evento	Acción
Herramienta	0x4305	Precaución	Fallo de software	Pila RTC baja	Sustituya la pila de botón dentro de la unidad de la herramienta.
	0x4306	Precaución	Fallo de software	Error de actualización del firmware	Confirme que el archivo de firmware es correcto.
	0x4315	Precaución	Fallo de software	Error de comunicación USB	Se ha resuelto un error.
	0x4316	Precaución	Fallo de software	Módulo Wi-Fi reiniciado	Se ha resuelto un error.
	0x1401	Advertencia	Fallo de hardware	Error del módulo Wi-Fi	Se ha resuelto un error.
	0x1402	Advertencia	Fallo de hardware	Error del microcontrolador de control del motor	Se ha resuelto un error.
	0x1403	Advertencia	Fallo de hardware	Error del microcontrolador de cálculo de par	Se ha resuelto un error.
	0x1404	Advertencia	Fallo de hardware	Error de la unidad flash externa	Se ha resuelto un error.
	0x1405	Advertencia	Fallo de hardware	Error RTC	Se ha resuelto un error.
	0x1406	Advertencia	Fallo de hardware	Error de identificación del circuito	Se ha resuelto un error.
	0x1407	Advertencia	Fallo de hardware	No queda espacio de intercambio	Se ha resuelto un error.
	0x1408	Advertencia	Fallo de hardware	Espacio del parámetro dañado	Se ha resuelto un error.

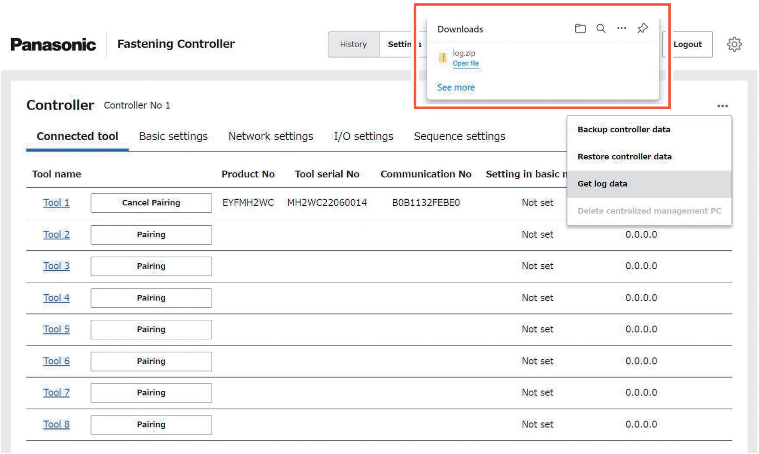
DATOS DE REGISTRO DE LA OPERACIÓN

En la página superior (la página inicial de la pantalla de ajustes), haga clic en [Settings] en la parte superior.
Haga clic en ··· (tecla de opción del controlador) y luego en [Get log data].
Puede obtener los registros de funcionamiento del controlador.


Panasonic
Fastening Controller
History
Settings
ID : sample
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic mode	
Tool 1	Cancel Pairing	EYFMH1WC	MH1WC22060019	B0B113306359	Batch 1	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

▼


Panasonic
Fastening Controller
History
Settin
Downloads
log.zip
Open file
See more
Logout
Controller
Controller No 1
···
Connected tool
Basic settings
Network settings
I/O settings
Sequence settings
Backup controller data
Restore controller data
Get log data
Delete centralized management PC

Tool name		Product No	Tool serial No	Communication No	Setting in basic	
Tool 1	Cancel Pairing	EYFMH2WC	MH2WC22060014	B0B1132FEBE0	Not set	
Tool 2	Pairing				Not set	0.0.0.0
Tool 3	Pairing				Not set	0.0.0.0
Tool 4	Pairing				Not set	0.0.0.0
Tool 5	Pairing				Not set	0.0.0.0
Tool 6	Pairing				Not set	0.0.0.0
Tool 7	Pairing				Not set	0.0.0.0
Tool 8	Pairing				Not set	0.0.0.0

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Version 3.1, 31 March 2009

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40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org on July 25, 2012.

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Fast discrete Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. */

****
* WHENCE *
****

This file attempts to document the origin and licensing information, if known, for each piece of firmware distributed for use with the Linux kernel.

Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd

Licence: Redistributable. See LICENCE.cypress for details.

Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

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Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

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Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

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Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

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Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details

Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

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Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

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Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

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Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

```
/*
 * This firmware is for the Emagic EMI 2|6 Audio Interface
 *
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic
 * as an unpublished work. This notice does not imply unrestricted
 * or public access to this firmware which is a trade secret of Emagic,
 * and which may not be reproduced, used, sold or transferred to
 * any third party without Emagic's written consent. All Rights Reserved.
 *
 * Permission is hereby granted for the distribution of this firmware
 * image as part of a Linux or other Open Source operating system kernel
 * in text or binary form as required.
 *
 * This firmware may not be modified and may only be used with the
 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */
```

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
        Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
    per support@multitech.com
        Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

---

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
        Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
        Port 1 LED flashes when the vend_ax program is running
        Port 2 LED flashes when any SETUP command arrives

Port 3 LED flashes when any valid VENDOR request occurs
Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

```
 * Copyright (C) 1999 BayCom GmbH
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that redistributions of source
 * code retain the above copyright notice and this comment without
 * modification.
```

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

```
//**************************************************************
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06
//* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//**************************************************************
```

Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:

```
//**************************************************************
//* Edgeport Binary Image (for TI based products)
//* Generated by TIBin2C v2.00 (watchport)
//* Copyright (C) 2001 Inside Out Networks, All rights reserved.
//**************************************************************
```

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from
http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:

```
/*
 *  Copyright (c) 1994 Creative Technology Ltd.
 *  Microcode files for SB16 Advanced Signal Processor
 */
```

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

----

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

----

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys

Licence:

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Found in hex form in kernel source.

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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Found in hex form in kernel source.

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

Licence:
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*
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* data in hexadecimal or equivalent format, provided this copyright
* notice is accompanying it.

Found in hex form in kernel source.

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.24.3.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.24.3.0.bin
File: cxgb4/t5fw-1.14.4.0.bin

File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.24.3.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.24.3.0.bin
File: cxgb4/t6fw-1.24.3.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.24.3.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin

Licence: Redistributable. See LICENCE.chelsio_firmware for details

---

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at http://alteon.shareable.org/

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

Licence:
* Firmware is:
* Derived from proprietary unpublished source code,
* Copyright (C) 2000-2013 Broadcom Corporation.
*
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* data in hexadecimal or equivalent format, provided this copyright
* notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin

File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from http://linuxwimax.org/Download

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell's "Extranet" with permission. 8366 images contributed directly by Marvell.

Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.Marvell for details. Originates from
http://git.marvell.com/?p=mwifiex-firmware.git

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode

Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version: 16.242414.0

File: iwlwifi-7260-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version: 16.242414.0

File: iwlwifi-3160-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265-8.ucode
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version: 16.242414.0

File: iwlwifi-7265-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265D-10.ucode

Version: 23.15.10.0

File: iwlwifi-7265D-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode
Version: 16.242414.0

File: iwlwifi-7265D-17.ucode
Version: 17.352738.0

File: iwlwifi-7265D-21.ucode
Version: 21.302800.0

File: iwlwifi-7265D-22.ucode
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode
Version: 29.3e3b4de5.0

File: iwlwifi-3168-21.ucode
Version: 21.302800.0

File: iwlwifi-3168-22.ucode
Version: 22.391740.0

File: iwlwifi-3168-27.ucode
Version: 27.541033.0

File: iwlwifi-3168-29.ucode
Version: 29.3e3b4de5.0

File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode
Version: 21.302800.0

File: iwlwifi-8000C-22.ucode
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode

Version: 34.610288.0

File: iwlwifi-8000C-36.ucode
Version: 36.8fd77bb3.0

File: iwlwifi-8265-21.ucode
Version: 21.302800.0

File: iwlwifi-8265-22.ucode
Version: 22.391740.0

File: iwlwifi-8265-27.ucode
Version: 27.541033.0

File: iwlwifi-8265-31.ucode
Version: 31.560484.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.8fd77bb3.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.a41adfe7.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode

Version: 46.a41adfe7.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode
Version: 48.13675109.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.13675109.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.13675109.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.13675109.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.13675109.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.13675109.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.13675109.0

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

---

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311fce49c5a180b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

Licence: Redistributable. See LICENSE.ipu3_firmware for details

---

Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

```
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```

Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

```
/*
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 *
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 * EMBODIED IN ANY OTHER 3COM HARDWARE OR SOFTWARE EITHER SOLELY OR IN
 * COMBINATION WITH THE 3c990img.h MICROCODE SOFTWARE
 */
```

Found in hex form in kernel source.

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
 * (C) F6FBB 1998

Found in hex form in kernel source.

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:

```
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * waranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 *  - Loaded from xl_init upon adapter initialization.
 *
 * Available from 3Com as part of their standard 3C359 driver.
 */
```

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e2-7.0.20.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw

File: bnx2x/bnx2x-e1-7.2.51.0.fw
File: bnx2x/bnx2x-e1h-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.8.2.0.fw
File: bnx2x/bnx2x-e1h-7.8.2.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.17.0.fw
File: bnx2x/bnx2x-e1h-7.8.17.0.fw
File: bnx2x/bnx2x-e2-7.8.17.0.fw
File: bnx2x/bnx2x-e1-7.8.19.0.fw
File: bnx2x/bnx2x-e1h-7.8.19.0.fw
File: bnx2x/bnx2x-e2-7.8.19.0.fw
File: bnx2x/bnx2x-e1-7.10.51.0.fw
File: bnx2x/bnx2x-e1h-7.10.51.0.fw
File: bnx2x/bnx2x-e2-7.10.51.0.fw
File: bnx2x/bnx2x-e1-7.12.30.0.fw
File: bnx2x/bnx2x-e1h-7.12.30.0.fw
File: bnx2x/bnx2x-e2-7.12.30.0.fw
File: bnx2x/bnx2x-e1-7.13.1.0.fw
File: bnx2x/bnx2x-e1h-7.13.1.0.fw
File: bnx2x/bnx2x-e2-7.13.1.0.fw
File: bnx2x/bnx2x-e1-7.13.11.0.fw
File: bnx2x/bnx2x-e1h-7.13.11.0.fw
File: bnx2x/bnx2x-e2-7.13.11.0.fw

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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw

File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from http://ldriver.qlogic.com/firmware/netxen_nic/new/

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

----

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

----

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

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Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

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Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

----

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

----

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin

File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
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File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin

File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_ce.bin
File: radeon/BONAIRE_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin
File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
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File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
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File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
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File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
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File: radeon/MULLINS_ce.bin
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File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
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File: radeon/tahiti_k_smc.bin
File: radeon/tahiti_mc.bin

File: radeon/tahiti_me.bin
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File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
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File: radeon/bonaire_me.bin
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File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
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File: radeon/kaveri_mec.bin
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File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
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File: radeon/hawaii_mec.bin
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File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
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File: amdgpu/verde_ce.bin
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File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
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File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin

File: amdgpu/oland_ce.bin
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File: amdgpu/banks_k_2_smc.bin
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File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin

File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec2_2.bin
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File: amdgpu/polaris10_mec_2.bin
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File: amdgpu/polaris10_rlc.bin
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File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
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File: amdgpu/polaris11_ce_2.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_me_2.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec2_2.bin
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File: amdgpu/polaris12_ce.bin
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File: amdgpu/polaris12_mec.bin
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File: amdgpu/polaris12_sdma.bin

File: amdgpu/polaris12_sdma1.bin
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File: amdgpu/vega10_acg_smc.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega10_ce.bin
File: amdgpu/vega10_gpu_info.bin
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File: amdgpu/vega20_vce.bin
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File: amdgpu/picasso_asd.bin
File: amdgpu/picasso_ce.bin
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File: amdgpu/picasso_mec.bin
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File: amdgpu/picasso_rlc.bin
File: amdgpu/picasso_rlc_am4.bin
File: amdgpu/picasso_sdma.bin
File: amdgpu/picasso_vcn.bin
File: amdgpu/raven2_asd.bin
File: amdgpu/raven2_ce.bin
File: amdgpu/raven2_gpu_info.bin
File: amdgpu/raven2_me.bin
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File: amdgpu/raven2_mec2.bin
File: amdgpu/raven2_pfp.bin
File: amdgpu/raven2_rlc.bin
File: amdgpu/raven2_sdma.bin
File: amdgpu/raven2_vcn.bin

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Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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```
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 * SOFTWARE.
```

Found in hex form in kernel source.

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html

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Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac4339-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin

File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac43455-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac4356-sdio.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac43570-pcie.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac43340-sdio.bin
File: brcm/brcmfmac43362-sdio.bin
File: brcm/brcmfmac43430-sdio.bin
File: brcm/brcmfmac4354-sdio.bin
File: brcm/brcmfmac4356-pcie.bin
File: brcm/brcmfmac4373-sdio.bin
File: brcm/brcmfmac4373.bin

Licence: Redistributable. See LICENCE.cypress for details.

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
File: "brcm/brcmfmac43362-sdio.lemaker,bananapro.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"

Licence: GPLv2. See GPL-2 for details.

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
Copyright © 2010 STMicroelectronics

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to
have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory.
So if your system looks for firmwares in /lib/firmware, the firmwares for
wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)

File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:

- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to hava a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
File: rtlwifi/rtl8723bs_nic.bin
File: rtlwifi/rtl8723bs_ap_wowlan.bin
File: rtlwifi/rtl8723bs_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

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Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

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Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst

File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

----

Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4-1.0-00045
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt

File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN.RM.4.4.1-00140-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00045
Licence: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00040
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00046
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENCE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

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Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq
Version: BT_StonePeak_D1_REL_52_00005
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0522
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL0306
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0306
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL0472
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL0472
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL0472
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL0472
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-0-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-18-16-1.sfi
Version: BT_ThunderPeak_B0_B0_REL0472
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL0472
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL0472
File: intel/ibt-18-2.ddc
Version: BT_ThunderPeak_B0_B0_REL0472
File: intel/ibt-18-0-1.sfi

Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-0-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File:intel/ibt-20-0-3.sfi
Version: BT_CyclonePeak_A0_REL0310
File:intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL0310
File:intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL0310
File:intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL_0310
File:intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL0310
File:intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL0310
File:intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL0310
File:intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL0310
File:intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL0310
File:intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL0310
File:intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL0310
File:intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL0310

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2019-02-13

License: Redistributable. See LICENSE.amd-sev for details

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2018-11-28

License: Redistributable. See LICENSE.amd-ucode for details

Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

License:
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binary form as required.

(Please note that the actual device firmware is separately licensed)

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

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Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

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 *
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 *	provided this copyright notice is accompanying it.

Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> intel/dsp_fw_release_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_bxtn.bin -> intel/dsp_fw_bxtn_v3366.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
File: intel/dsp_fw_cnl.bin
Link: intel/dsp_fw_cnl.bin -> intel/dsp_fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.10

Licence: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin
File: nvidia/tegra210/vic04_ucode.bin
File: nvidia/tegra186/vic04_ucode.bin

Licence: Redistributable. See LICENCE.nvidia for details

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
File: atusb/atusb-0.3.dfu
Version: 0.3
File: atusb/rzusb-0.3.bin
Version: 0.3
Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Driver: qca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin
Version: v1.7.2

File: liquidio/lio_210nv_nic.bin
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

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Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
File: i915/skl_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
File: i915/bxt_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
File: i915/kbl_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin
File: i915/kbl_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
File: i915/skl_guc_ver6.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake
License: Redistributable. See LICENSE.i915 for details

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
File: nvidia/gm204/acr/bl.bin
File: nvidia/gm204/acr/ucode_load.bin
File: nvidia/gm204/acr/ucode_unload.bin
File: nvidia/gm204/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
File: nvidia/gm204/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
File: nvidia/gm204/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
File: nvidia/gm204/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
File: nvidia/gm204/gr/sw_bundle_init.bin
File: nvidia/gm204/gr/sw_ctx.bin
File: nvidia/gm204/gr/sw_method_init.bin
File: nvidia/gm204/gr/sw_nonctx.bin
File: nvidia/gm206/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
File: nvidia/gm206/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
File: nvidia/gm206/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
File: nvidia/gm206/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
File: nvidia/gm206/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
File: nvidia/gm206/gr/sw_bundle_init.bin
File: nvidia/gm206/gr/sw_ctx.bin
File: nvidia/gm206/gr/sw_method_init.bin
File: nvidia/gm206/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin

File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
File: nvidia/gm20b/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
File: nvidia/gp100/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
File: nvidia/gp100/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
File: nvidia/gp102/gr/fecs_bl.bin
File: nvidia/gp102/gr/fecs_data.bin
File: nvidia/gp102/gr/fecs_inst.bin
File: nvidia/gp102/gr/fecs_sig.bin
File: nvidia/gp102/gr/gpccs_bl.bin
File: nvidia/gp102/gr/gpccs_data.bin
File: nvidia/gp102/gr/gpccs_inst.bin
File: nvidia/gp102/gr/gpccs_sig.bin
File: nvidia/gp102/gr/sw_bundle_init.bin
File: nvidia/gp102/gr/sw_ctx.bin
File: nvidia/gp102/gr/sw_method_init.bin
File: nvidia/gp102/gr/sw_nonctx.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
File: nvidia/gp104/acr/bl.bin
File: nvidia/gp104/acr/ucode_load.bin
File: nvidia/gp104/acr/ucode_unload.bin
File: nvidia/gp104/acr/unload_bl.bin
File: nvidia/gp104/gr/fecs_bl.bin
File: nvidia/gp104/gr/fecs_data.bin
File: nvidia/gp104/gr/fecs_inst.bin
File: nvidia/gp104/gr/fecs_sig.bin
File: nvidia/gp104/gr/gpccs_bl.bin
File: nvidia/gp104/gr/gpccs_data.bin
File: nvidia/gp104/gr/gpccs_inst.bin
File: nvidia/gp104/gr/gpccs_sig.bin
File: nvidia/gp104/gr/sw_bundle_init.bin
File: nvidia/gp104/gr/sw_ctx.bin
File: nvidia/gp104/gr/sw_method_init.bin
File: nvidia/gp104/gr/sw_nonctx.bin
File: nvidia/gp104/nvdec/scrubber.bin
File: nvidia/gp104/sec2/desc.bin
File: nvidia/gp104/sec2/image.bin
File: nvidia/gp104/sec2/sig.bin
File: nvidia/gp104/sec2/desc-1.bin
File: nvidia/gp104/sec2/image-1.bin
File: nvidia/gp104/sec2/sig-1.bin
File: nvidia/gp106/acr/bl.bin
File: nvidia/gp106/acr/ucode_load.bin
File: nvidia/gp106/acr/ucode_unload.bin
File: nvidia/gp106/acr/unload_bl.bin
File: nvidia/gp106/gr/fecs_bl.bin
File: nvidia/gp106/gr/fecs_data.bin
File: nvidia/gp106/gr/fecs_inst.bin
File: nvidia/gp106/gr/fecs_sig.bin
File: nvidia/gp106/gr/gpccs_bl.bin
File: nvidia/gp106/gr/gpccs_data.bin
File: nvidia/gp106/gr/gpccs_inst.bin
File: nvidia/gp106/gr/gpccs_sig.bin
File: nvidia/gp106/gr/sw_bundle_init.bin
File: nvidia/gp106/gr/sw_ctx.bin
File: nvidia/gp106/gr/sw_method_init.bin
File: nvidia/gp106/gr/sw_nonctx.bin
File: nvidia/gp106/nvdec/scrubber.bin
File: nvidia/gp106/sec2/desc.bin
File: nvidia/gp106/sec2/image.bin
File: nvidia/gp106/sec2/sig.bin
File: nvidia/gp106/sec2/desc-1.bin
File: nvidia/gp106/sec2/image-1.bin
File: nvidia/gp106/sec2/sig-1.bin
File: nvidia/gp107/acr/bl.bin
File: nvidia/gp107/acr/ucode_load.bin
File: nvidia/gp107/acr/ucode_unload.bin
File: nvidia/gp107/acr/unload_bl.bin
File: nvidia/gp107/gr/fecs_bl.bin
File: nvidia/gp107/gr/fecs_data.bin
File: nvidia/gp107/gr/fecs_inst.bin
File: nvidia/gp107/gr/fecs_sig.bin
File: nvidia/gp107/gr/gpccs_bl.bin
File: nvidia/gp107/gr/gpccs_data.bin
File: nvidia/gp107/gr/gpccs_inst.bin
File: nvidia/gp107/gr/gpccs_sig.bin
File: nvidia/gp107/gr/sw_bundle_init.bin
File: nvidia/gp107/gr/sw_ctx.bin
File: nvidia/gp107/gr/sw_method_init.bin
File: nvidia/gp107/gr/sw_nonctx.bin
File: nvidia/gp107/nvdec/scrubber.bin
File: nvidia/gp107/sec2/desc.bin
File: nvidia/gp107/sec2/image.bin
File: nvidia/gp107/sec2/sig.bin

File: nvidia/gp107/sec2/desc-1.bin
File: nvidia/gp107/sec2/image-1.bin
File: nvidia/gp107/sec2/sig-1.bin
File: nvidia/gp10b/acr/bl.bin
File: nvidia/gp10b/acr/ucode_load.bin
File: nvidia/gp10b/gr/fecs_bl.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin
File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
File: nvidia/gp108/acr/bl.bin
File: nvidia/gp108/acr/ucode_load.bin
File: nvidia/gp108/acr/ucode_unload.bin
File: nvidia/gp108/acr/unload_bl.bin
File: nvidia/gp108/gr/fecs_bl.bin
File: nvidia/gp108/gr/fecs_data.bin
File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
File: nvidia/gp108/gr/gpccs_bl.bin
File: nvidia/gp108/gr/gpccs_data.bin
File: nvidia/gp108/gr/gpccs_inst.bin
File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
File: nvidia/gp108/nvdec/scrubber.bin
File: nvidia/gp108/sec2/desc.bin
File: nvidia/gp108/sec2/image.bin
File: nvidia/gp108/sec2/sig.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
File: nvidia/gv100/acr/ucode_unload.bin
File: nvidia/gv100/acr/unload_bl.bin
File: nvidia/gv100/gr/fecs_bl.bin
File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin

File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin

License: Redistributable. See LICENSE.atmel for details

Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

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Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENCE.ti-keystone for details.

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: vpu_d.bin
File: vpu_p.bin

Licence: Redistributable.

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Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20190114
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw -> nic/nic_AMDA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw -> nic/nic_AMDA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw
Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw
Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0078-0011_1x100.nffw

File: netronome/nic-sriov/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0078-0011_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> netronome/flower/nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw -> netronome/flower/nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> netronome/flower/nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> netronome/flower/nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> netronome/flower/nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> netronome/flower/nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> netronome/flower/nic_AMDA0058.nffw

Version: AOTC-2.10.A.38

File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw

File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

Version: v2.0.6.124

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Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

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Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

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https://developer.qualcomm.com/hardware/dragonboard-410c/tools

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Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

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Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt

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https://developer.qualcomm.com/hardware/dragonboard-410c/tools

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Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-13.1910.622.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1122.mfa2

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Driver: cdns-mhdp - Cadence MHDP DP bridge

File: cadence/mhdp8546.bin
Version: 1.2.15

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Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb
File: dpaa2/mc/mc_10.10.0_ls2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
File: dpaa2/mc/mc_10.14.3_ls1088a.itb
File: dpaa2/mc/mc_10.14.3_ls2088a.itb
File: dpaa2/mc/mc_10.14.3_lx2160a.itb
File: dpaa2/mc/mc_10.16.2_ls1088a.itb
File: dpaa2/mc/mc_10.16.2_ls2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb

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Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

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Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxm_h264.bin

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> ""BTW, I would have rejected the name Story Server because its initials are SS, the name of the secret police in Nazi Germany, probably the most despised pair of letters in western culture."" --- http://scriptingnewsarchive.userland.com/1999/12/13

Let no one say political correctness isn't dead....

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---

stdio.c
by Mark Gates <mgates@nlanr.net>
and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>

---

input and output numbers, converting with kilo, mega, giga

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