

Operation Manual

PRODUCT NAME

I/O Configurator (NFC version)

Model / Series / P	Product Number
--------------------	----------------

Wireless Base	EXW1-BMJA# EXW1-BDNAC EXW1-BECAC EXW1-BENAC1 EXW1-BPNAC1
	EX600-WPN# EX600-WEN#
Wireless Remote	<i>EXW1-RDXNE4## EXW1-RDYNE4##</i>

EXW1-RDYNE4## EXW1-RDM#E3## EXW1-RL#PA#C EX600-WSV#

SMC Corporation

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1. Introduction

1.1 License Agreement

SMC Corporation (hereinafter referred to as "SMC") hereby grants the user (regardless of whether the user is a corporation or an individual) a license to use this software "I/O Configurator" (hereinafter referred to as "Software") according to this License agreement (hereinafter referred to as "Agreement") under the articles listed below.

Please check the content of this License Agreement, and only use it if you agree to all the terms and conditions herein. You cannot use this software, unless you agree with all the terms and conditions of this Licence Agreement.

Article 1 (Grant of license)

- 1. This Software is intended for use with the respective SMC Wireless system Target product (henceforth referred to as "Target product") and it can only be used with Target products, in accordance with this licence agreement.
- 2. This software can only be installed on a PC for the sole purpose specified in the preceding paragraph.

Article 2 (Restrictions)

- 1. This software is not to be copied, except as specified in Article 1-2.
- 2. This software license is not to be transferred or loaned wholly or in part to a third party, either free of charge or for payment.
- 3. Modification, translation, adaptation or reverse engineering of this software is not permitted.
- 4. The user cannot use this software other than with the Target product.
- 5. This software cannot be used other than with the firmware which SMC provides.

Article 3 (Other notices)

- 1. Read the "Safety Instructions", "Precautions", "Specific Product Precautions" and "Specifications" described in the manual for the equipment when using any Target product supported by this Software.
- 2. This Software and the Target product are subject to change without prior notice.

Article 4 (Exemption of liability)

SMC cannot take any responsibility for any loss or damage incurred by the use of this Software or for any loss or damage that may occur as a consequence of the use of this software.

Article 5 (Termination)

- 1. SMC has the full authority to terminate this agreement without notice and without any compensation in the event that any terms and conditions have been breached.
- 2. This Software and any copies thereof must be destroyed when this Agreement is terminated.

Article 6 (Rights of this Software)

The copyright and any other rights of this Software are owned by SMC, and protected by Japanese copyright laws and international treaty provisions.

Article 7 (Governing law and jurisdiction)

1. This Agreement shall be governed by Japanese law.



1.2 About the I/O Configurator (NFC version)

With the I/O Configurator (NFC version), the status of a wireless system can be checked and all parameters of a wireless unit can be set from a PC using an NFC reader / writer. The status can be checked without logging in (Monitor mode). Logging in is necessary before setting parameters (Administrator mode).

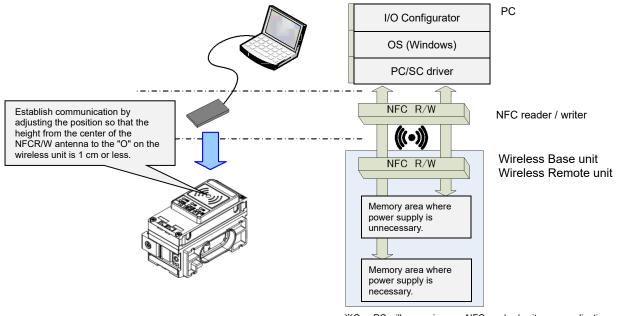
The following can be performed in Monitor mode.

- Checking the parameters of wireless units
- Checking the details and status of a wireless system

The following can be performed in Administrator mode.

- Setting the parameters of wireless units
- Changing the details of a wireless system
- Pairing Wireless Base / Remote units

There are two types of settable parameters which can be read or written when no power is supplied to the product, and parameters which can be read or written only when power is supplied to the product.



One PC will recognize one NFC reader / writer per application setting. Do not connect multiple NFC readers / writers to a PC.

Connection details using the I/O Configurator for NFC and wireless unit

* I/O Configurator (Web version)

This operation manual explains the outline of the setting using the I/O Configurator (NFC version). The I/O Configurator (Web version) is used to set parameters for the "Wireless Base" and parameters for the "I/O devices".

* The product is available in Japanese, English, and Chinese by setting the language in the Windows OS.



The following products support the I/O Configurator (NFC version).

[Wireless Base] EXW1-BMJA# EXW1-BDNAC EXW1-BECAC EXW1-BENAC1 EXW1-BPNAC1 EX600-WEN# (manifold type) EX600-WPN# (manifold type)

[Wireless Remote] EXW1-RDXNE4## EXW1-RDYNE4## EXW1-RDM#E3## EXW1-RL#PA#C EX600-WSV# (manifold type)

To use a wireless system, it is necessary to "pair" a Wireless Base and Remote. Configure this using the I/O Configurator (NFC version).

The following sections of this document should be read before using the I/O Configurator (NFC version):

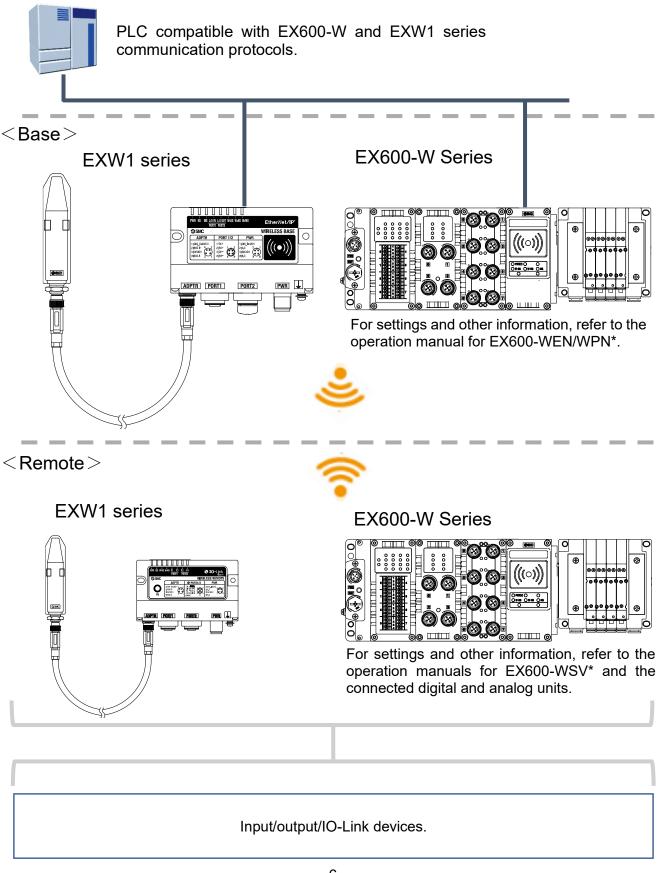
2.4 Monitor mode and Administrator mode

2.5 Basic operational flow for settings and monitoring

3 Setting of the wireless unit system



1.3 SMC wireless system (system configuration)





1.4 System compatibility

Mixed use with EX600-W Series

Although it is possible to use with EX600-W series, the operating conditions must comply with the specifications of the existing wireless system. Note that the following functions may be restricted:

•Communication distance

The maximum communication distance will vary depending upon the system configuration. Please see the details in the table on the next page.

Protocol

This refers to the wireless communication version. For more details, check the system settings of the Base.

•Frequency channel select function (F.C.S.)

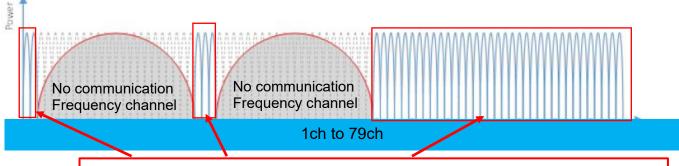
- The frequency channel to use can be selected using this function.
- * The number of selectable frequency channels varies depending on the country of use. For more details, check the product number.

Number of selectable frequency channels	Applicable country
Min. 5 channels, Max. 79 channels	Certified countries except for the U.S., Canada, South Korea, Brazil, Taiwan, Argentina, and Mexico.
Min. 15 channels, Max. 79 channels	Certified countries including the U.S., Canada, South Korea, Brazil, Taiwan, Argentina, and Mexico.

* If no channel is selected, communication is established on 79 channels by default.

* For the latest information, refer to the catalog on the website below. URL <u>https://www.smcworld.com</u>

The figure below shows an example where only the frequency channels that do not clash with two wireless LAN channels are used for wireless communication.



Communication is established only on frequency channels selected using F.C.S.

•WEB function (supported only by EX600-WEN/WPN)

Various product settings and communication statuses can be checked by accessing EX600-WEN/WPN from a PC.

•Radio output level setting function

This function reduces the radio output level to reduce the impact of SMC radio equipment on other radio equipment.

This setting is reflected in the base and in the remote of the paired wireless adapter connection. See the base system settings for details.

•Wireless communication timeout period

When wireless communication (including retries) is not successful due to obstacles or other factors, this function (setting) determines that communication has failed and disconnects and reconnects wireless communication after a set period of time.



Refer to the system configuration example below. For details, please refer to the instruction manual of each product.

Syste	em configui	ration example		Applicable function			
No.	Wireless Base	Wireless Remote	Communication distance	Protocol	F.C.S.	Radio output level setting	WEB
1	EXW1	EXW1+EXA1	Up to 100 m	V.2.0*1	0	0	○*6
	EXW1	EXW1	Up to 100 m	V.1.0/V.2.0*1	○*2	○*2	○*6
2	EXW1	EXW1+EX600	*3	V.1.0	×	×	○*6
3	EXW1	EX600	Up to 10 m	V.1.0	×	×	○*6
4	EX600	EXW1	Up to 10 m	V.1.0	×	×	○*4
5	EX600	EXW1+EX600	Up to 10 m	V.1.0	×	×	○*4
6* ⁵	EX600	EX600	Up to 10 m	V.1.0	×	×	0

*1: For more details, check the system settings of the Base.

*2: Only available in Protocol V.2.0.

*3: Up to 100 m between an EXW1 series Base and Remote, and up to 10 m between an EXW1 series Base and an EX600-W series Remote.

4: EXW1-R has limited setting/monitoring capabilities.

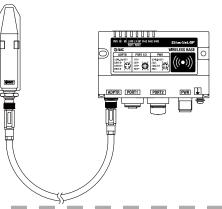
*5: This configuration consists solely of EX600-W series units; refer to the operation manual of the product in use for the further details.

*6: Applies only to wireless bases (EXW1-BENAC1, EXW1-BPNAC1) that supports web functionality.

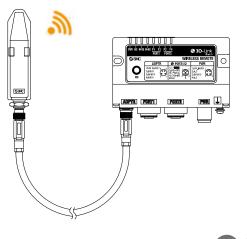
○ System configuration example 1

Wireless Base : EXW1-BENAC1 Wireless Remote : EXW1 series, EXA1 series (EXW1-*-SA-*L only)

< Wireless Base >



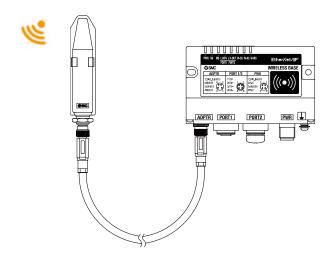
<Wireless Remote>



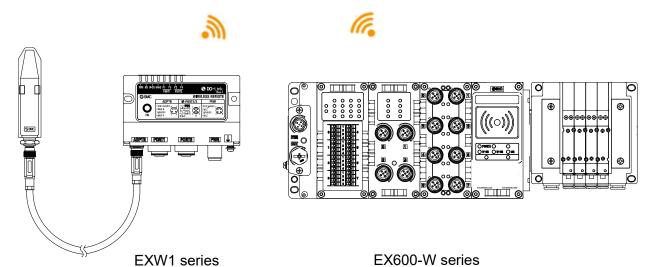


<u>OSystem configuration 2</u> Wireless Base : EXW1-BENAC1 Wireless Remote: EXW1 series, EX600-W series

<Wireless Base>



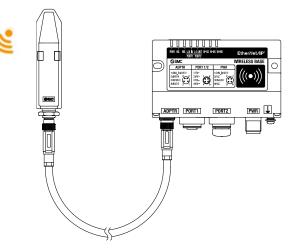
< Wireless Remote >



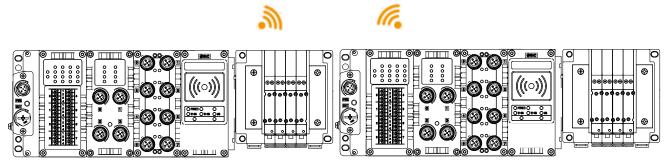


<u>System configuration 3</u> Wireless Base : EXW1-BENAC1 Wireless Remote: EX600-W Series

<Wireless Base>

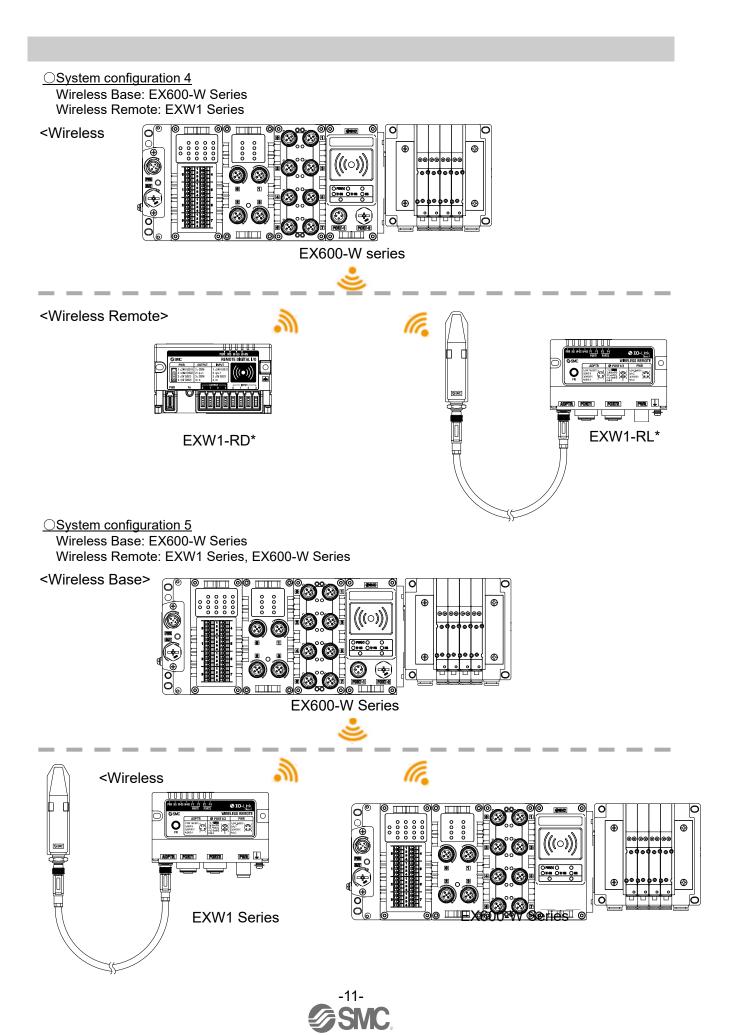


< Wireless Remote >



EX600-W Series





<u>System configuration 6</u>
 Wireless Base: EX600-W series
 Wireless Remote: EX600-W series

For system configurations of EX600-W series, refer to the operation manual of the product in use for the further details.

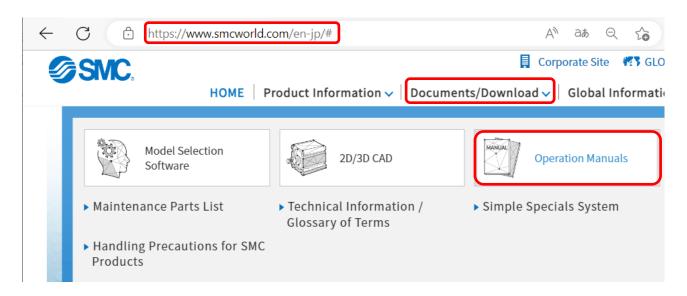
1.5 About this manual

This manual can be used with the I/O Configurator (NFC version) ver. 2.13.0.

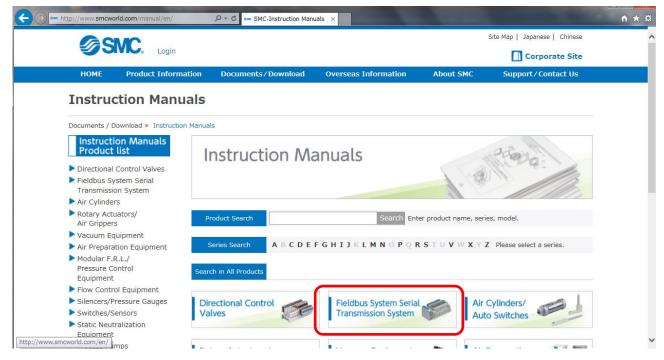


2. Basic operations with the I/O Configurator (NFC version)

- 2.1 Download the I/O Configurator (NFC version)
- (1) On the SMC website (<u>https://www.smcworld.com</u>), select [Documents/Download] and click [Operation Manuals].



(2) Select the Fieldbus System Serial Transmission System.





(3) Select the protocol supported by the product (Example: EtherNet/IP[™] compatible).

				Site Map Japanese Chinese
SINC. Login				
				Corporate Site
HOME Product Inform	ation Documents/Download	Overseas Information	About SMC	Support/Contact Us
Instruction Manu	ials			
Documents / Download » Instructio	n Manuals			
Instruction Manuals Product list				M as
	Instruction M	anuals		Papa.
Directional Control Valves			1.	ALL THE
 Fieldbus System Serial Transmission System 			1. 13	1112
			100	
CompoNet™			111	11/11/12
CompoNet™ Compatible	Broduct Search	Search Ent	er product name, ser	ies model
 CompoNet™ Compatible DeviceNet™ 	Product Search	Search Ent	er product name, ser	ies, model.
CompoNet™ Compatible				
 CompoNet™ Compatible DeviceNet™ Compatible 		Search Ent		
 CompoNet[™] Compatible DeviceNet[™] Compatible PROFIBUS-DP Compatible CC-Link Compatible 	Series Search A B C D E	FGHIJKLMNOPQR	ε s τ υ v w x γ	
 CompoNet™ Compatible DeviceNet™ Compatible PROFIBUS-DP Compatible CC-Link Compatible CANopen Compatible 		FGHIJKLMNOPQR	ε s τ υ v w x γ	
 CompoNet™ Compatible DeviceNet™ Compatible PROFIBUS-DP Compatible CC-Link Compatible CANonen Compatible EtherNet/IP™ 	Series Search A B C D E	FGHIJKLMNOPQR	ε s τ υ v w x γ	
 CompoNet™ Compatible DeviceNet™ Compatible PROFIBUS-DP Compatible CC-Link Compatible CANopen Compatible 	Series Search A B C D E	FGHIJKLMNOPQR	ε s τ υ v w x γ	
 CompoNet[™] Compatible DeviceNet[™] Compatible PROFIBUS-DP Compatible CC-Link Compatible CANopen Compatible EtherNet/IP[™] Compatible 	Series Search A B C D E Fieldbus System Se	FGHIJKLMNOPQR	ε s τ υ v w x γ	

(4) Scroll down the page of the Fieldbus Serial Transmission System and click the Configuration File for the I/O Configurator (NFC version). The download will begin.

Compact Wireless Base EtherNet/IP™ OPC UA Compatible	EXW1-BENAC1	English Quick Guide Configuration File	
I/O Configurator for NFC (SMC Wireless System EX600-W/EXW1 Ver. 2.12.0	EX600-WEN EX600-WPN EX600-WSV EXW1-BMJ EXW1-BEC EXW1-BEN EXW1-BPN EXW1-RD# EXW1-RL# Initial setting application	English Configuration File	Japanese, English, Chines. EXW1-NT1 compatible. Link to Old version.

Older versions of the I/O Configurator (NFC version) can be downloaded as well as the latest version. Download the version which is suitable for your device. Downloading the latest version enables settings to be made for all models, including those supported with older versions of this software.



2.2 Start the I/O Configurator (NFC version)

- (1) Unzip the downloaded zip file.
- (2) Double-click "IOConfigurator.exe". The I/O Configurator (NFC version) will start up.

Favorites	A Name	Date modified	Туре	Siz
🧮 Desktop	💰 ini0.wsc	10/16/2017 2:03 PM	Windows Script C	
鷆 Downloads	💰 ini1.wsc	10/16/2017 2:03 PM	Windows Script C	
🖳 Recent Places	IOConfigurator.exe	10/16/2017 2:03 PM	Application	
	Sna.NoWire.dll	10/16/2017 2:03 PM	Application extens	

To move IOConfigurator.exe to the desktop or another location, move the folder of the I/O Configurator, or create a shortcut of IOConfigurator.exe and invoke and use the program through it.

2.3 Screen layout

The window below is displayed when the I/O Configurator (NFC version) starts.

I/O Configurator					2 (1)
Unit information Part No: PID Firmware version:	Please update. Please update. Please update.			Refresh Power off R/W detected	(2) (3) (4)
System configuration	~	Description		~	
			O Administrator mode	Monitor mode	(5)



- Basic characteristics

No.	Item	Explanation
		The I/O Configurator (NFC version) revision details will appear by clicking the [?] button.
		Application information X
	1 Version information button	I/O Configurator Version:2.##.0
		Copyright © SMC Corporation. All Rights Reserved.
2	Refresh button	The Refresh button updates the Wireless Base / Remote module information displayed on the application window. The information on the window is not updated automatically. Always click the Refresh button when moving to a tab or after parameter settings. The Refresh button is displayed on all screens.
3	Power status	The power status of the wireless unit is displayed. Power on is displayed when power for the Wireless Base / Remote is supplied. Power off is displayed when power is not supplied.
4	R/W connection status	Indicates the connection status of the PC-NFC reader / writer. R/W detected : NFC communication with the wireless unit is available. R/W undetected : NFC reader / writer is not identified or USB is not connected. or No Driver : NFC reader / writer is not identified or USB is not connected.
5	Operating mode switching button	These radio buttons switch the mode between Monitor mode and Administrator mode (buttons on the lower right of the I/O Configurator (NFC version) window).



2.4 Monitor mode and Administrator mode

The user can select from Monitor mode and Administrator mode using the I/O Configurator (NFC version) depending on the functions that are to be used.

(a) Monitor mode

Wireless unit information or I/O map and parameter settings can be read. Parameters cannot be set. The Forced output function cannot be used.

(b) Administrator mode

All functions can be used.

I/O Configurator 2.10.0					-		×
Information							?
Unit information Part No: PID Firmware version:	Please update. Please update. Please update.				Po	efresh ower off / detected	
System configuration	~	Description					
			(b)		(<u>a)</u>		_
			🔿 Admi	nistrator mode	Monito	or mode	



- Login to administrator mode

A password is necessary to log in to Administrator mode.

Any password can be set. To prevent unauthorized use, it is advisable to change the default password when the I/O Configurator is first used.

- (1) Select the [Administrator mode] radio button.
- (2) Type a password while holding the NFC reader / writer near the NFC antenna approach area of the wireless unit and click the [Confirm] button.

I/O Configurator		- ×
		2
Unit information		
Part No:	Please update.	Refresh
PID	Please update.	Power off
Firmware version:	Please update.	R/W detected
System configuration	Description	
W.ch Part No	Password check — — X	<u>^</u>
	(2) Please enter password: Confirm Edit password Clear password	~
	Administrator mode	 Monitor mode

Password at the time of shipment: admin

When [Edit password] is selected, a window for changing the password is displayed. Change to any suitable password.

When the NFC reader / writer is held over the wireless unit, an error message may appear, such as "Device driver software was not successfully installed" or "Smart card was not identified" depending on the version of Windows OS. The reader / writer can be continuously used.

Refer to the Microsoft website (https://support.microsoft.com/kb/976832/).



- Troubleshooting

Read error: Confirm that the NFC reader / writer is connected to the PC. Confirm that the NFC reader / writer is held near the NFC antenna approach area. When frozen: Remove the NFC reader / writer from the PC and connect it again.

After taking the above actions, click the [Refresh] button.

If the password is forgotten, the previously set password can be deleted using [Clear password]. When the [Clear password] button is clicked, the password clear window will appear. The password is cleared (a password is no longer set) by entering the master key in the password box. Then it is possible to enter Administrator mode without entering a password.

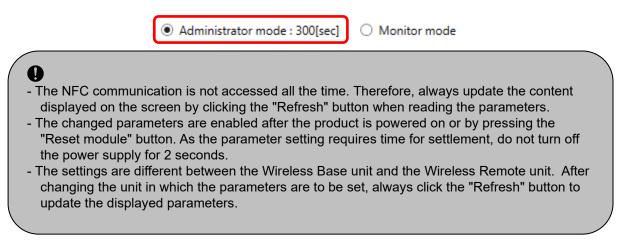
Master key: ADMIN								
See Password clear	-		×					
Please enter mast	er key:]					
Confirm		Cancel						



2.5 Basic operational flow for settings and monitoring

To change settings, switch to Administrator mode to operate the I/O Configurator. In Administrator mode, a timeout occurs after 300 seconds of inactivity and the application returns to Monitor mode.

A timeout countdown is displayed to the right of the "Administrator mode" label.



O Operational flow during monitoring

A rough operational flow during monitoring is shown below (operations in Monitor mode).

(1) Select the tab that you wish to check
↓
(2) Display the setting item that you wish to check
(3) Click [Refresh]
¥
(4) Check the present settings and values



O Operational flow when changing settings

A rough operational flow during setting changing operations is shown below (operations performed in Administrator mode).

(1) Select the tab that you wish to check
\checkmark
(2) Display the setting item that you wish to check
↓
(3) Click [Refresh]
↓
(4) Check the present settings and values
+
(5) Change the necessary item and value settings
+
(6) Click [Save all]
(7) Click [Reset module] (Settings are applied to the unit)
↓
(8) Click [Refresh]
$\mathbf{+}$
(9) Check that the updated settings and values are applied correctly



2.6 Explanation of screens

The tabs available on the I/O Configurator (NFC version) consist of the [Information], [I/O monitor], [Properties], and [Parameter] tabs.

On an EXW1-series Base unit, [Event] and [Wireless] tabs are displayed to the right of the [Properties] tab.

I/O Configurator							
Information	I/O monitor	Properties	Event	Wireless	Parameter		

An outline of each tab is explained below. Refer to "5. Screen details of the I/O Configurator (NFC version)" for details.

Information tab

Wireless unit information and system configuration can be checked on the Information tab.

Information I/O monitor Prop	perties			
Unit information Part No: PID Firmware version: Module in/out size: Online/All Remotes:	EX600-WEN# 0EE1401E 9.0.2 16 / 16 byte 0 / 5 Remotes	MAC address: IP address: SUBNET MASK: System I/O size:	00:23:C6:26:0B:4F 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected
System configuration W.ch Part No ▷ EX600-WEN# 001 ▷ EX600-WSV#Dis 002 ▷ EX600-WSVDY#: 003 Dummy 004 Dummy 005 Dummy		Description Part No : PID : TAG : Unit status : HOLD/CLR/SET : In/Out offset : In/Out offset : In/Out size : I/O available : Input data : Output data : RSSI average : Edit TAG	EX600-WEN‡ OEE1401E EX600-WEN‡ OO 00 00 00 OK CLEAR 10 / 0 16 / 16 byte 2 / 5 byte 14 / 11 byte 00 00 00 00 00 00 00 -72 dBm	<



I/O monitor tab

The wireless unit I/O data can be monitored.

The display can be switched between input and output displays by clicking the tabs at the top of the status display area. With a Base unit (EXW1-BMJA#) that supports CC-Link, the display can be switched between Bit area and Word area.

Diagnostic information or details of input / output can be checked by double-clicking any address line in the display.

					Refresh
					Neirean
					Power on
it Outpu	it				R/W detected
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status
0		0EE1401E	0x00	00000000	System diagnose data
1		0EE1401E	0x00	00000000	System diagnose data
2		0EE1401E	0x00	00000000	System diagnose data
3		0EE1401E	0x00	00000000	System diagnose data
4		0EE1401E	0x00	00000000	Remote connection information
5		0EE1401E	0x00	00000000	Remote connection information
6		0EE1401E	0x00	00000000	Remote diagnose information
7		0EE1401E	0x00	00000000	Remote diagnose information
8		0EE1401E	0x06	00000110	Remote registration information
9		0EE1401E	0x00	00000000	Remote registration information
10		0EE1401E	0x00	00000000	Base input
11		0EE1401E	0x00	00000000	Base input
12		0EE1401E	0x00	00000000	Base input
13		0EE1401E	0x00	00000000	Base input
14		0EE1401E	0x00	00000000	Base input
15		0EE1401E	0x00	00000000	Base input
16		0EE1401E	0x00	00000000	Base input
17		00014010	0.00	00000000	Dana inc. 4

ormation 1/	O monitor Prope	erties Event W	lireless		
					Refresh
					Power on
Ry RWr	RWw				R/W detected
Address	Wirless CH	PID	Data(byte)	Data(bit)	Detail
0x000	001	N/A	N/A	N/A	Connection error
0x008	001	N/A	N/A	N/A	Connection error



Properties tab

Settings of a connected wireless unit can be changed in the Properties tab.

The area displayed for making settings can be changed by selecting a radio button in the "Control panel".

Information I/O monitor Properties	s	
Control panel		
Base setting	Ethernet setting Import Reset module	Refresh
○ Remote registration ○	System setting Export	Power on R/W detected
Base setting		
HOLD/CLR (unit):	CLEAR ~	Save all
Input size:	128 points/16 byte ~	Read factory data
Output size:(includes valves)	128 points/16 byte ~	Product initialization
in which include	s a valve density of: 32 points/4 byte ~	
Wireless signal:	Active ~	
Unit address order	SI 2 1 0 0 1 2 1 0	

Control panel	_			Refresh
Base setting	 Ethernet setting 	Import	Reset module	
Remote registration	○ System setting	Export		Power on R/W detected
Ethernet setting				
MAC address:				Save all
IP address type:	Manual	<u> </u>		Read factory data
IP address:	192 . 168	. 0 . 1		
	Port-1	Da	rt-2	
Auto MDI/MDI-X:	Auto	~ Auto	v	
Duplex:	Full Duplex	Y Full Duple	× ×	
Communication speed:	Auto	~ Auto	~	



• Event tab

Displayed on an EXW1-series Base unit, this tab makes it possible to check the event information (errors, etc.) of the Wireless Base or Wireless Remotes.

Information	I/O monitor	Properties	Event	Wireless						
				~	C	LEAR		EXPORT		Refresh
										Power on R/W detected
TAG : Please u										
	Timestam	р		Un	it	Chan	nel		Error Coo	le

• Wireless tab

Displayed on an EXW1-series Base unit, this tab makes it possible to check wireless log data.

Information	I/O monitor	Properties	Event Wire	eless					
									Refresh
									Power on
									R/W detected
					Recording	~	EXPORT	-	CLEAR
Input Outp	out								
WCh		Send Packe	ets	RSSI		PER		Comm	n Error

0

- Not displayed for a EXW1 series Base unit. It possible to check wireless log data by web function on EX600-W series.



Parameter tab

This tab makes it possible to check and change the parameters of the Wireless Base or Wireless Remotes.

Information	I/O monitor	Properties	Event	Wireless	Parameter]			
									Refresh Power on R/W detected
System cor	figuration		~	Settin		tics			Read
			\sim						Save



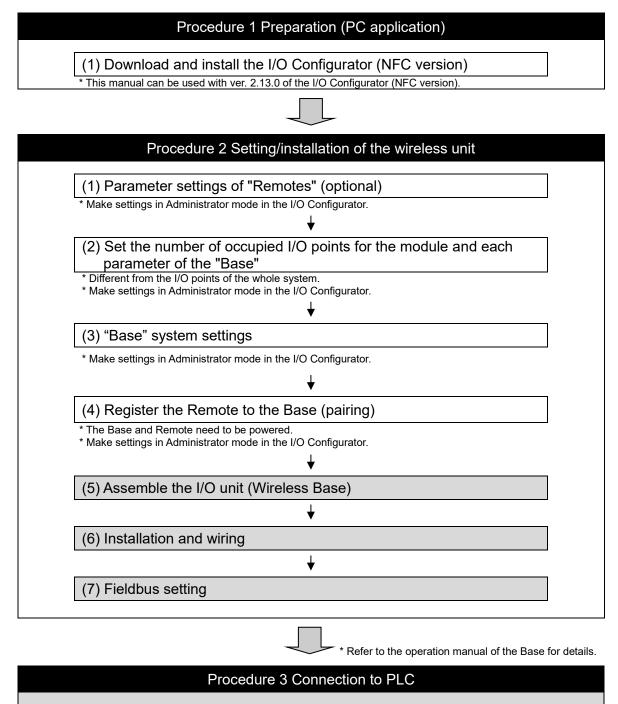
3. Setting of the wireless unit system

Installation of the SMC wireless system (Base and Remote) so that it can be controlled by an upper level controller is described here. Grayed out items do not use the I/O Configurator. Refer to the operation manual for each product.

3.1 Flow of setting operation

To use a wireless unit system, use the I/O Configurator (NFC version) and an NFC reader / writer to make settings on the wireless units (Base and Remotes).

Make the following settings in Administrator mode in the I/O Configurator (NFC version).

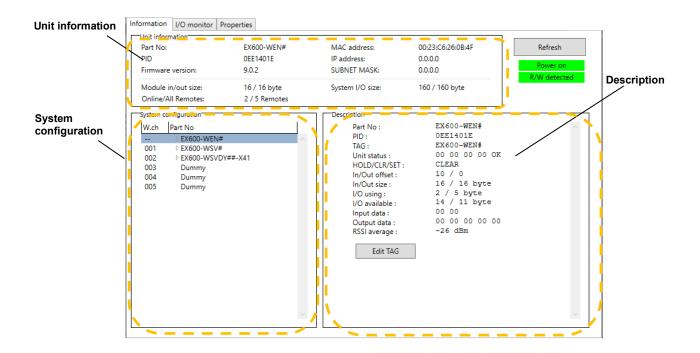


Note) Refer to the operation manual of the PLC manufacturer for connection to PLC and I/O Configurator.



3.2 Reading and obtaining device information

Start up the I/O Configurator and initiate NFC read-in with the Information tab to obtain information for each unit and the system. The displayed parameters depend on the unit.



Unit information area

The unit information area indicates the module information.

Part No:	EX600-WEN#	MAC address:	00:23:C6:26:0B:4F
PID	0EE1401E	IP address:	0.0.00
Firmware version:	9.0.2	SUBNET MASK:	0.0.0.0
Module in/out size:	16 / 16 byte	System I/O size:	160 / 160 byte
Online/All Remotes:	2 / 5 Remotes		

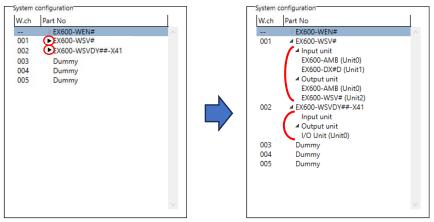
Depending on the displayed item, the status can still be checked even when power to the wireless unit is off.



System configuration area

System configuration shows the configuration information of the Wireless Base / Remote modules. "Error" appears to the right of a unit name when an error occurs.

Connected I/O units can be checked by double-clicking on the name of a displayed wireless unit or clicking on the ">" to the left.



Description area

Description of the unit selected in the system configuration area.

3.2.1 Entry of individual identification (Edit TAG)

The tag function is able to assign original name (Location, Function etc) on each wireless unit, is set to each product name by default.

Only the wireless unit can be set using [Edit TAG]. Up to 15 alphanumeric characters can be entered.

(1) Click the [Edit TAG] button at the bottom of the window.

Part No: EX600-WEN# PID: 0EE1401E TAG: EX600-WEN# Unit status: 00 00 00 00 0K HOLD/CLR/SET: CLEAR In/Out offset: 16 / 16 byte I/O using: 2 / 5 byte I/O available: 14 / 11 byte Input data: 00 00 00 00 00 Output data: 00 00 00 00 00 RSSI average: -26 dBm

(2) Enter a new tag name and click the [Confirm] button.

🚾 TAG edit	×
Please input new tag:	
EX600-WEN#	
Confirm PREV	

The name can be returned to the previous status during editing by clicking [PREV].



3.3 Remote setting

Set the parameters of a Remote unit.

- I/O points and parameter setting

The setting will be applied when the Remote is turned on (or reset).

• I/O points and parameter setting

Set the occupied I/O points and parameters for the module in [Remote setting]. Settable parameters depend on the unit being set (refer to "5.3 Properties tab" for details).

Remote unit setting screen (example using EX600-WSV)

Information I/O monitor Properties	;			
Control panel Remote setting		Import	Reset module	Refresh
 Pairing setting 		Export		R/W detected
Remote setting				
HOLD/CLR (unit):	CLEAR		v	Save all
Input size:	128 points/16 byte		v	Read factory data
Output size:(includes valves)	128 points/16 byte		V	Product initialization
in which includes	a valve density of:	32 points/4 byte		
Wireless signal:	Active		v]
AD refresh time(sec)	1s		v]
Unit address order	0	SI 1 2	SI 2 1 0	
	• M	lode 1	O Mode 2	J



Remote unit setting items (example using compact wireless unit EXW1-RDXNE4## / EXW1-RDYNE4## / EXW1-RDM#E3##)

Parameter name	Set value	Initial value
Input size*	16 points (16 bits)	16 points (16 bits)
Output size (includes valves)*	16 points (16 bits)	16 points (16 bits)
Wireless signal	Active / Idle	Active
Power Supply Voltage Monitor (Control/Input)	Enable / Disable	Enable
Power Supply Voltage Monitor (Output)	Enable / Disable	Disable
Output action when upper communication is disconnected.	Clear / Hold	Clear
Output action when wireless communication is disconnected.	Clear / Hold	EXW1-RDYNE4#: Clear EXW1-RDM#E3#: Hold

* Although the number of occupied inputs / outputs of the EXW1-RDM# is fixed at 16 (16 bits), only the lower 8 bits are available.

Remote unit setting items (example using manifold-type wireless unit EX600-WSV#)

Parameter name	Set value	Initial value
HOLD/CLR (unit)	Clear / Hold / Software Control	Clear
Input size	0 to 128 points (0 to 16 bytes)	128 points/16 byte
Output size (includes valves)	0 to 128 points (0 to 16 bytes)	128 points/16 byte
in which includes a valve density of	0 to 32 points (0 to 4 bytes)	32 points/4 byte
Wireless signal	Active / Idle	Active
AD refresh time (sec)	0.1/0.2/0.5/1/2/5/10/30/60 s	1 s
Unit address order	Mode 1 / Mode 2	Mode 1



3.4 Base setting

Make the Base unit settings. Set the communication environment using the PLC, make unit settings, etc.

- Communication environment with PLC ([Ethernet setting], [CC-Link Setting], [DeviceNet Setting], [EtherCAT Setting])
- I/O points and parameter setting
- System setting
- OPC UA setting

• Ethernet setting

Make the EtherNet settings when using a Base unit that supports EtherNet/IP.

 OPC UA Setting Remote registration 	 Ethernet setting System setting 		port	Reset module	Refresh Power off R/W detected
Ethernet setting MAC address:	00:23:C6:00:0A:	62			Save all
IP address type:	Manual	~			Read factory data
IP address:	192 . 168	. 0	. 1		
SUBNET MASK:	255 255	255	. 0		
Default gateway	0 0	. 0	. 0		
	Port-1		Po	ort-2	
Auto MDI/MDI-X:	Auto	~	Auto	~	
Duplex:	Full Duplex	~	Full Duple	ex Y	
Communication speed:	Auto	>	Auto	~	

The parameters below can be set (refer to "5.3 Properties tab").

Ethernet setting items (example using manifold-type wireless unit EXW1-BENCA1)

Parameter name	Set value	Initial value
MAC address	-	-
IP address type	Manual / DHCP / Remote Control	Manual
IP address	Enter value	192.168.0.1
SUBNET MASK	Enter value	255.255.255.0
Default gateway	Enter value	0.0.0.0
Auto MDI/MDI-X	Auto / MDI / MDIX	Auto
Duplex	Full Duplex / Half Duplex	Full Duplex
Speed	Auto / 100 Mbps / 10 Mbps	Auto



Ethernet setting items (example using manifold-type wireless unit EX600-WEN)

Parameter name	Set value	Initial value
MAC address	-	-
IP address type	Manual / DHCP / Remote Control	Manual
IP address	Enter value	192.168.0.1
Auto MDI/MDI-X	Auto / MDI / MDIX	Auto
Duplex	Full Duplex / Half Duplex	Full Duplex
Speed	Auto / 100 Mbps / 10 Mbps	Auto

0

- "Ethernet setting" is only displayed for a Base unit that supports EtherNet/IP.

CC-Link setting

Make the CC-Link settings when using a Base unit that supports CC-Link.

nformation I/O monitor Prop Control panel	Event Wireless CC-Link Setting System setting	Import Reset module Export	Refresh Power on R/W detected
CC-Link Setting			
Operating mode:	2	~	Save all
	Max. Remote units:	15Remote	Read factory data
	CC-Link version:	1.10	
	Extension Cycle(s):	1times	
	Occupied station(s):	4	
	RX/RY:	128 bits / 128 bits	
	RWr/RWw:	16 words / 16 words	
Speed:	156kbps	~	
Number of slave stations:	1500555	~	

The parameters below can be set (refer to "5.3 Properties tab").

CC-Link setting items (example using compact wireless unit EXW1-BMJA#)

Parameter name	Set value	Initial value
Operating mode	1 to 8	2
Speed	156 kbps / 625 kbps / 2.5 Mbps / 5 Mbps / 10 Mbps	156 kbps
Number of slave stations	1 to 64 stations	No value

- "CC-Link Setting" is only displayed for a Base unit that supports CC-Link.



• DeviceNet setting

Make the DeviceNet settings when using a Base unit that supports DeviceNet.

Information I/O monitor Propert	ies Event Wireless Parameter	
	DeviceNet setting Import Reset module System setting Export	Refresh Power on R/W detected
DeviceNet setting		
MAC ID	63 ~	Save all
Baud Rate	125kbps ~	Read factory data
QuickConnect™	Disable ~	

The parameters below can be set (refer to "5.3 Properties tab").

DeviceNet setting items (example using compact wireless unit EXW1-BDNAC)

Parameter name	Set value	Initial value
MAC ID	0 to 63, PGM	63
Baud Rate	125/250/500kbps, Auto, PGM	500kbps
QuickConnect™	Enable / Disable	Disable

0

- "DeviceNet setting" is only displayed for a Base unit that supports DeviceNet.



• EtherCAT setting

Make the EtherCAT settings when using a Base unit that supports EtherCAT.

Information I/O monitor	Properties Event Wireless Parameter	
Control panel		
	EtherCAT setting Import Reset module	Refresh
O Remote registration	System setting Export	Power on R/W detected
EtherCAT setting		
Custom setting	Enable *	Save all
		Read factory data

The parameters below can be set (refer to "5.3 Properties tab").

EtherCAT setting items (example using compact wireless unit EXW1-BECAC)

Parameter name	Set value	Initial value
Custom setting	Enable / Disable	Disable

0

- " EtherCAT setting" is only displayed for a Base unit that supports EtherCAT.



• I/O points and parameter setting

Set the occupied I/O points and parameters for the module using [Base setting].

Base unit setting screen (example using EX600-WEN)

Remote registration Base setting HOLD/CLR (unit): Input size:	Ethernet setting System setting CLEAR 128 points/16 byte 128 points/16 byte	Import Export	Reset module	Refresh Power on R/W detected Save all Read factory data
Base setting HOLD/CLR (unit): Input size:	CLEAR 128 points/16 byte	Export		R/W detected
HOLD/CLR (unit): Input size:	128 points/16 byte			
Input size:	128 points/16 byte			
			v	Read factory data
	128 points/16 byte			
Output size:(includes valves)			~	Product initialization
in which includes	s a valve density of:	32 points/4 byte	~	
Wireless signal:	Active		~	
Unit address order	0 1	SI 2 2	SI 1 0 Mode 2	

The parameters below can be set (refer to "5.3 Properties tab").

0

Base unit setting items (example using manifold-type wireless unit EX600-WEN# / EX600-WPN#)

Parameter name	Set value	Initial value
HOLD/CLR (unit)	CLEAR / HOLD / Software Control	CLEAR
Input size	0 to 128 points (0 to 16 bytes)	128 points/16 byte
Output size (includes valves)	0 to 128 points (0 to 16 bytes)	128 points/16 byte
in which includes a valve density of	0 to 32 points (0 to 4 bytes)	32 points/4 byte
Wireless signal	Active / Idle	Active
Unit address order	Mode 1 / Mode 2	Mode 1

- [Base setting] is not displayed for a Base unit that supports CC-Link (EXW1-BMJA#)



System setting

Change the parameter settings as required.

System setting screen (example using EXW1-BMJA#)

_) CC-Link Setting) System setting	Import Export	Reset module	Refresh Power on R/W detected
System setting				
I/O mapping:	Manual		v	Save all
Diagnostic allocation:	Advanced		~	Read factory data
DA refresh time(sec)	1s		~	Product initialization
Output Action of Upper Commun	Clear		~	
Time of Wireless Communication	500msec		~	
Input Information of Wireless Cor	Hold		~	
Wireless signal:	Active		~	
Protocol	V.1.0		~	
Time Information	Please update.			
				Synchronize time

The parameters below can be set. Settable parameters depend on the unit being set (refer to "5.3 Properties tab" for details).

System setting items (example using compact Wireless Base EXW1-BMJA#)

Parameter	Set value	Initial value
I/O mapping	Manual	Manual
Diagnostic allocation	Advanced	Advanced
DA refresh time (sec) *1	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 s	1 s
Output Action of Upper	Clear / Hold / Individual	Clear
Communication		
Time of Wireless	20 / 40 / 100/ 200 / 500 / 1,000 / 2,000 / 5,000 msec	500 msec
Communication		
Input Information of Wireless	Clear / Hold	Hold
Communication		
Wireless signal	Active / Idle	Active
Protocol	V.1.0 / V.2.0	V.1.0
Time Information *2	-	Unsynchronized

*1 It is necessary to set the data update time for each analog input unit connected to the Wireless Remote.

*2 Click [Synchronize time] to synchronize with the system time on the PC being used to make settings. Counting starts from that time.

0

- The protocol version is set to V.1.0 by default; to use the 1 Mbps wireless communication speed and the frequency channel selecting function (F.C.S.) in a wireless system consisting solely of EXW1 series devices, change the protocol version to V.2.0 before pairing them.



System setting items (example using compact Wireless Base EXW1-BECAC)

Parameter	Set value	Initial value
I/O mapping	Auto	Auto
Diagnostic allocation	None/Simple/ Advanced	Advanced
Max. Remote units	15 /31/63 Remotes	15 Remotes
Wireless communication	100/200/500/1,000 msec	500 msec
timeout	/2,000/5,000 msec	
Power Transmission Level	High/Middle/Low	High
Wireless communication	Active/Idle	Active
Protocol	V.1.0/V.2.0	V.2.0

System setting items (example using compact Wireless Base EXW1-BENAC1)

Parameter	Set value	Initial value
I/O mapping	Manual / Auto	Manual
System input size	16, 128,256,512,768,1024,1280,	2048 points/256 byte
	2048 to 11264 pointsi in 1024-point units	
	2, 16,32,64,96,128,160,	
	256 bytes to 1408 bytes in 128- bytes units	
System output size	16, 128,256,512,768,1024,1280,	2048 points/256 byte
	2048 to 11264 pointsi in 1024-point units	
	2, 16,32,64,96,128,160,	
	256 bytes to 1408 bytes in 128- bytes units	
Diagnostic allocation	None/Simple/ Advanced	Advanced
Max. Remote units	15 /31/63 Remotes	15 Remotes
Wireless communication	100/200/500/1,000 msec	500 msec
timeout	/2,000/5,000 msec	
Power Transmission Level	High/Middle/Low	High
Wireless communication	Active/Idle	Active
Protocol	V.1.0/V.2.0	V.2.0
Time Information *1	-	Unsynchronized

*1 Click [Synchronize time] to synchronize with the system time on the PC being used to make settings. Counting starts from that time.

System setting items (example using compact Wireless Base EXW1- BPNAC1)

Parameter	Set value	Initial value
I/O mapping	Auto	Auto
Diagnostic allocation	None/Simple/ Advanced	Advanced
Max. Remote units	15 /31/63 Remotes	15 Remotes
Wireless communication	100/200/500/1,000 msec	500 msec
timeout	/2,000/5,000 msec	
Power Transmission Level	High/Middle/Low	High
Wireless communication	Active/Idle	Active
Protocol	V.1.0/V.2.0	V.2.0
Time Information *1	-	Unsynchronized

*1 Click [Synchronize time] to synchronize with the system time on the PC being used to make settings. Counting starts from that time.



•The protocol version is set to V.2.0 by default; to use EX600-W series Remote devices, change the protocol version to V.1.0 before pairing them.



Parameter	Set value	Initial value
I/O mapping	Manual / Auto	Manual
System input size	16, 128,256,512,768,1024,1280,2048,3088, 4096 pointsi 2, 16,32,64,96,128,160,256,386,512bytes	1280 points/160 byte
System output size	16, 128,256,512,768,1024,1280,2048,3088, 4096 pointsi 2, 16,32,64,96,128,160,256,386,512bytes	1280 points/160 byte
Diagnostic allocation	None/Simple/ Advanced	Advanced
Max. Remote units	15 /31 Remotes	15 Remotes
Wireless communication timeout	100/200/500/1,000 msec /2,000/5,000 msec	500 msec
Power Transmission Level	High/Middle/Low	High
Wireless communication	Active/Idle	Active
Protocol	V.1.0/V.2.0	V.2.0
Time Information *1	-	Unsynchronized

System setting items (example using compact Wireless Base EXW1-BDNAC)

*1 Click [Synchronize time] to synchronize with the system time on the PC being used to make settings. Counting starts from that time.

System setting items (example using manifold-type Wireless Base EX600-WEN# / EX600-WPN#)

Parameter	Set value	Initial value
I/O mapping	Manual / Auto	Manual (EX600-WEN#)
		Auto (EX600-WPN#, fixed)
System input size	16, 128 to 1280 points (2 bytes to 160 bytes) in 128-	1280 points/160 byte
	point (16-byte) units	
System output size	16, 128 to 1280 points (2 bytes to 160 bytes) in 128-	1280 points/160 byte
	point (16-byte) units	
Diagnostic allocation	None / Simple / Advanced	Advanced
Max. Remote units	0 / 15 / 31 / 63 / 127 Remotes (EX600-WEN#)	15 Remotes
	0 / 15 / 31 units (EX600-WPN#)	
DA refresh time(sec)*1	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 s	1 s

*1 The analog input update time is set for every Wireless Remote unit. Refer to "3.3 Remote setting".



OPC UA setting

Change the parameter settings as required.

System setting screen (example using EXW1-BPNAC1)

Information I/O monitor	Properties Event Wireless Parameter	
OPC UA Setting Remote registration	Import Reset module O System setting Export	Refresh Power off R/W detected
OPC UA Setting		
Security Mode	Sign & Encrypt	Save all
Security Policy	✓ Basic256Sha256	Read factory data
	✓ Aes128Sha256_RsaOaep	
	Basic256	
	Basic128Rsal15	
Anonymous Login	Disable	
OPC UA Write Enable	Disable	

The parameters below can be set. Settable parameters depend on the unit being set (refer to "5.3 Properties tab" for details).

OPC UA setting items (example using compact Wireless Base

Parameter Security Mode		Set value	Initial value	Memo
		Sign & Encrypt, Sign, None	Sign & Encrypt	
	Basic256Sha256	✓ (Enable)	Enable	*Fixed Enable
	Aes128_Sha256_RsaOaep	✓ (Enable)	Enable	*Fixed Enable
Security Policy	Basic256	Enable (Not recommended) / Disable		
	Basic128Rsa15	Enable (Not recommended) / Disable		
Anonymous Login		Enable (Not recommended) / Disable	Disable	
OPCUA Write Enable		Enable / Disable	Disable	**Output from PLC will be ignored when set to Enable.

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- "OPC UA setting" is only displayed for a Base unit that supports OPC UA.



• Frequency channel select function (F.C.S.)

With a EXW1 series Base unit, the frequency channel can be selected.

Only protocol V.2.0 is supported. Specify protocol V.2.0 in [System setting].

* The number of selectable frequency channels varies depending on the country in use. Refer to the operation manual for the product in use.

* If no channel is selected, communication is established on ch 79 by default.

Make settings from [Remote registration] on the [Properties] tab.

	○ CC-Link Setting	Import	Reset module	Refresh
Remote registration	○ System setting	Export]	Power on R/W detected
mote registration				
Registered Remotes W.ch Remote PID Input	t size Output size Base ID	Registration status	TAG	
			(1)	Pairing:
			(')	Normai mode Pairing mode
				O Pairing mode
W.ch:	▼ ▲	•	Save reg. info. (2)	FCS Setting
Free Remotes				Dummy
W.ch Remote PID Input	t size Output size Base ID	Registration status	TAG	Insert dummy I/O
				Input size
				0byte ~
				O (I) (I)
				Output size

- (1) Set [Pairing] to [Normal mode]. Refer to "3.5 Pairing" for details on pairing.
- (2) Click [FCS Setting].



Set using the [Frequency Channel Select Window].

W-CH	MHz]				CH.8 CH				3 CH.14
		2403	2404	2405	2406	2407	2408	2409	2410
241	2412	2413	2414	2415	2416	2417	2418	2419	2420
242	1 2422	2423	2424	2425	2426	2427	2428	2429	243
243	2432	2433	2434	2435	2436	2437	2438	2439	244
244	2442	2443	2444	2445	2446	2447	2448	2449	245
245		2453	2454	2455	2456	2457	2458	2459	246
246		2463	2464	2465	2466	2467	2468	2469	247
247	2472	2473	2474	2475	2476	2477	2478	2479	248
248									

No.	Item	Description
(1)	Read button	Retrieves the current channel selection configuration.
(2)	W-LAN Channel	The W-LAN indicators make it possible to select frequency channels corresponding to W-LAN channel at one time.
`	indicators	* In the example above, W-LAN Channel: CH.10 is selected.
(3)	W-CH indicators	The W-CH indicators make it possible to select frequencies for each CH. * In the example above, frequencies 2419, 2426-2428, and 2446-2468 [MHz] are unused Channels. Note that frequencies 2446-2468 [MHz] correspond to (1) W-LAN Channel: CH.10 above.
(4)	Clear button	Select 79 frequency channels by default.
(5)	Apply button	Save the W-CH selection configuration.

- Indicator colors

Color	Description	Remarks
Green	Active frequency channel (W-CH area) W-LAN channel that does not conflict with Active frequency channels (W-LAN Channel area)	
Yellow	Advertise channel	Cannot be set for inactive frequency channels
Grey	Inactive frequency channel	

0

- If advertise channels are included in the CH at the time of selecting a W-LAN Channel, they cannot be selected. To select them, initialize the product or remove all the registered Remotes and then configure F.C.S. before performing pairing.

- To use 5-7 frequency channels, neighbouring frequencies need to be separated by 3 MHz.

- To use 8-14 frequency channels, neighbouring frequencies need to be separated by 2 MHz.
- To use 15 frequency channels or more. neighbouring frequencies can be selected.



3.5 Pairing

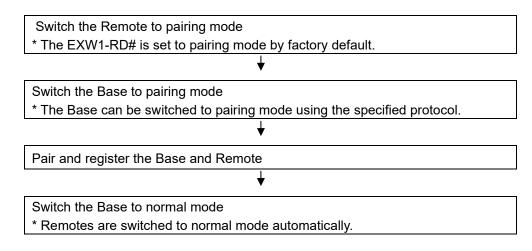
3.5.1 Pairing procedure

Pairing is required for communication between a Base and Remote.

A Base is paired with a Remote after they are switched to pairing mode.

Pairing and registration between a Base and Remote enables wireless communication.

O Operational flow during pairing



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•After changing the operation mode for pairing, the mode is changed by clicking the [Reset] button or re-supplying power so that the mode will be changed to the Remote registration or listing for connection.

•If the FCS function is to be used, please perform the FCS setting prior to pairing. After pairing the advertising channels are fixed which limits the channels available for FCS setting.

0

•Ensure the power supply for both the base and remote is on when they are paired •Exchange of I/O data is not possible during pairing

- Do no chage the pairing mode during the operation.
- •Module unit size of the remote is transferred to the base unit during the paring procedure. When this size is changed after the pairing, please re-confifure the system.

Any parameter changes are enabled after the product is powered on or by pressing the "Reset module" button.



(1) Switch the Remote to pairing mode

Connect to the Remote using NFC, select the (a) [Properties] tab and then click (b) [Refresh]. Select (d) [Pairing mode] from (c) [Pairing setting] on the (a) [Properties] tab and then click (e) [Reset module].

Once in pairing mode, the MS LED on the unit flashes alternately in red and green.

			Remote setting		
	Information I/O monitor	Properties		(e)	(b)
(c)	© Remote setting	(a)	Import	Reset module	Refresh Power on R/W detected
	Pairing setting				
					Pairing:
				(d)	Pairing mode



(2) Switch the Base to pairing mode

Connect to the Base using NFC, select the (a) [Properties] tab and then click (b) [Refresh]. Select (d) [Pairing mode] from (c) [Remote registration] on the (a) [Properties] tab and then click (e) [Reset module].

	Base setting screen	
	Information I/O monitor Properties Event Wireless (e)	(b)
(c)	Control panel (a) Import Reset module © Remote registration O System setting Export	Refresh Power on R/W detected
	Remote registration	
	W.ch Remote PID Input size Output size Base ID Registration status TAG (d)	Pairing: Normal mode Pairing mode
	W.ch: Save reg. info.	FCS Setting
	Free Remotes W.ch Remote PID Input size Output size Base ID Registration status TAG	Insert dummy I/O Input size Obyte * Output size Obyte *

- 0
 - A EXW1 series Base unit will change to pairing mode using the protocol set in "System setting". First set the protocol according to the Remote to be paired before switching to pairing mode.



- (3) Pair and register the Base and Remote
 - (a) Clicking [Refresh] causes Remotes in pairing mode to be listed in the Free Remotes area.(b) Select the Remote that is to be ristered,
 - Change the Input size and Output size settings as required.
 - (c) specify a wireless channel and then
 - (d) click ▲

	Base setting scree	'n
Information I/O monitor Properti	ies Event Wireless	(a)
Control panel		Refresh
	Import	Reset module
Remote registration	system setting Export	Power on R/W detected
Remote registration		
W.ch Remote PID Input size	Output size Base ID Registration stat	tus TAG
		Pairing:
		Normal mode
	(d)	Pairing mode
(C) W.ch: 001		Save reg. info.
	Output size Base ID Registration stat	
1352C004	Free	RDMPE3AN
1352C005	Free	EXW1-RDYN Input size
		Output size
•	"	► Obyte ▼

0

- If the Remote that you wish to pair with does not appear, click (a) [Refresh] again.
 If it still does not appear, check the following:
 - 1. The Remote is not switched to pairing mode
 - 2. The Remote is not turned on
 - 3. The Remote is registered or waiting to be registered to another Base



* Input size / Output size setting

In protocol V.2.0, it is possible to configure remotes (such as EXW1-RL*PA*C) with variable input/output occupied bytes.* Refer to the "I/O Map" section in the Operation Manual for each product for the range of Input/Output size to be set.

	n I/O monitor	r Propertie	es Event W	/ireless Pa	rameter		
Control p	oanel ote registration	n C) System sett	ing	Import Export	Reset module	Refresh Power on R/W detected
	registration ered Remotes						
W.ch	Remote PID	Input size	Output size	Base ID	Registration status	TAG	Pairing: O Normal mode Pairing mode
Free Re	W.c	:h:	•	▲	▼	Save reg. info.	FCS Setting
W.ch	Remote PID 1A13006E	Input size 38	Output size	Base ID 1A23C009	Registration status Free	TAG EXW1-RLBPA7C029	Insert dummy I/O
			50				Input size

The Remote that is to be registered on the specified wireless channel moves to the Registered Remotes area. Make sure that the registration status is Registered Wait, and click [Save reg. info.].

Base setting screen	
Information I/O monitor Properties Event Wireless	
Control panel	Refresh Power on R/W detected
© N	ring: ormal mode alring mode
Free Remotes W.ch Remote PID Input size Output size Base ID Registration status TAG 1352C005 0 2 Free EXW1-RDYN	FCS Setting mmy ert dummy I/O Input size bbyte • Output size bbyte •



Click (a) [Reset module] and (b) [Refresh] and check that the registration status changes to Registered.

Information I/O monitor Properties	Event Wireless	(a)	(b)
Control panel Systen Systen	Import n setting Export	Reset module	Refra Powe R/W de
Remote registration Registered Remotes W.ch Remote PID Input size Out 001 1352C004 2 2	put size _ Base ID Registration 13624007 Registered		
4	m		Pairing: Normal mod Pairing mode
W.ch: 002 •		Save reg. info.	FCS Settin
W.ch Remote PID Input size Out 1352C005 0 2	put size Base ID Registration Free	status TAG EXW1-RDYN	Insert dummy
			Obyte Output size

* The example below shows two Remote modules registered on channel 1 and channel 2.

Base setting screen	
nformation I/O monitor Properties Event Wireless	
Control panel Import Reset module	Refresh Power on R/W detected
Remote registration	
W.ch Remote PID Input size Output size Base ID Registration status TAG 001 1352C004 2 2 13624004 Registered RDMPE3AN 002 1352C005 0 2 13624004 Registered EXW1-RDVI	Pairing:
W.ch: 003 V Save reg. info.	Pairing mode FCS Setting
W.ch: 003 Free Remotes W.ch Remote PID Input size Output size Base ID Registration status. TAG	Dummy Insert dummy I/O
	Input size Obyte Output size Obyte

Configure the registration of dummy Remotes as necessary.



- (4) Disable the pairing mode of the Base (Normal mode) Connect to the Base using NFC,
 - (a) Select [Normal mode]

 - (b) Click [Reset module] to reselve Base.(c) Check connection with registerd Remotes.

ontrol p	anel				Import	Reset module	Refresh
Remo	ote registratio	n C) System sett	ing	Export	(b)	Power on R/W detected
	egistration red Remotes						1
W.ch	Remote PID	Input size	Output size	Base ID	Registration status	TAG	
001 002	21230001 16D2E710	0 2	2 0	18628002	Registered Registered	EXW1-RDYPE4AE EXW1-RDXNE4AE	(a)
							Normal mode Pairing mode
	W.(:h:	•		▼	Save reg. info.	FCS Setting
Free Re W.ch	Remote PID	Input size	Output size	Base ID	Registration status	TAG	Dummy Insert dummy I/O
	-						Input size Obyte ~ Output size Obyte ~



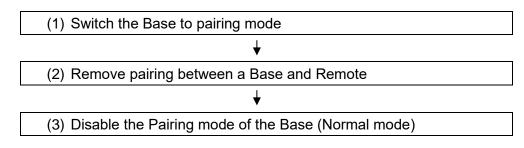
3.5.2 Unpairing procedure

Pairing between a Base and Remote will be removed.

When you wish to reconfigure the wireless system, such as changing the I/O sizes of a registered

Remote, pairing needs to be removed and registered again.

•Operational flow during unpairing



(1) Switch the Base to pairing mode

Switch the Base to pairing mode. Select the [Properties] tab and then click [Refresh]. Select [Pairing mode] from [Remote registration] on the [Properties] tab and then click [Reset]. [setting]

* The example below shows two Remote modules registered on CH1 and CH2.

I/O Configurator 2.10.0 (1)	Base setting scree	en 📔	- 🗆 X
Information I/O monitor Properties Event W	lireless	(5)	(2)
Remote registration System sett	Import Export	Reset module	Refresh Power on R/W detected
Remote registration Registered Remotes			
Wch Remote PID Input size Output size 001 09514F0F 16 8 002 21230001 0 2	Base ID Registration status 18628002 Registered 18628002 Registered		Pairing:
			Normal mode Pairing mode
W.ch: 003 Free Remotes W.ch Remote PID Input size Output size	Base ID Registration status	Save reg. info. (4)	Dummy
	base ID Registration status	^	Insert dummy I/O Input size Obyte ~ Output size
		~	Obvte ~
	٩ (Administrator mode : 296[sec]	O Monitor mode



(2) Removing the pairing between the Base and Remote

Pairing between the Base and Remote will be removed.

Click [Refresh]. Select the Remote that you wish to unpair from the registered Remotes and click ▼, which in turn causes the selected Remote to move to the Free Remotes area. Clicking [Save reg. info.] finalizes the unregistration of the Remote.

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•If a Remote moved to the Free Remotes area is not in Pairing mode, clicking [Refresh] after finalizing the unregistration of the Remote causes the Remote moved to the Free Remotes area to be hidden.

	I/O Configurator 2.10.0 Base setting screen Information I/O monitor Properties Event Wireless	- □ × _(1) [
	Control panel Import Reset module O System setting Export	Refresh Power on R/W detected
2)	Remote registration Registred Remotes Web Jeanstea BID Input cite/Output cite/Reco ID Projectation status 001 09514F0F 16 8 18628002 Registered	
-)		Pairing:
	(3) (4) Wch: Save reg. info.	Pairing mode
	Free Remotes 4 Wich Remote RD - Input size Dutput size Base ID - Registration status 21220001 0 -2 - 186828092 - Free	Dummy Insert dummy I/O
		Input size Obyte ~ Output size
	~	Obyte ~

* The example below shows two Remotes unregistered.

🚾 I/O Configurator 2.10.0	– Base	setting scree	en]	- 🗆 X
	nt Wireless			
Control panel Remote registration Syste	m setting	Import Export	Reset module	Refresh Power on R/W detected
Remote registration				
W.ch Remote PID Input size Outp	ut size Base ID	Registration status		Pairing: O Normal mode Pairing mode
W.ch:	•	•	Save reg. info.	Dummy
W.o. Remote PID Imput size (Output) 21230001 0 2 095544F0F -16 -8	18628002	Free		Insert dummy I/O Input size Obyte ~ Output size Obyte ~
		 Ac 	iministrator mode : 296[se	c] O Monitor mode

(3) Disable the Pairing mode of the Base (Normal mode) Set the Base to [Normal mode] and click [Reset].



3.6 Dummy Remote

Set dummy Remotes to secure reserved area in memory and enable Remotes to be added and registered later, without changes to mapping, even after the system has been configured. Register dummy Remotes using the Base.

Information I/O monitor	Properties Event	Wireless			
Control panel					
			Import	Reset module	Refresh
Remote registration	O System s	etting	Export		(a) Power on
					R/W detected
Remote registration					
Registered Remotes					1
W.ch Remote PID I	Input size Output s	ize Base ID	Registration status		
001 09514F0F	16 8	18628002	Registered		(a)
002 Dummy	0 8	18628002	Registered		Pairing:
	2 0	18628002	Registered		O Normal mode
	2 2	18628002	Registered		
005 21230001	0 2	18628002	Registered		Pairing mode
	006 •	A	•	Save reg. info.	(d) (c)
Free Remotes					Dummy
W.ch Remote PID I	Input size Output s	ize Base ID	Registration status	^	Insert dummy I/O
					Input size
					Obyte ~
					Output size
					0byte
					(b)

- (a) Change the operating mode of the Wireless Base unit
 - (a)-1 Set Remote registration on the Wireless Base unit to "Pairing mode".
 - (a)-2 Reflect the change by clicking "Reset module" or by re-supplying power.
 - (a)-3 Click the "Refresh" button to update the display.
- (b) Set inputs / outputs of the dummy Remote

Set the number of inputs and outputs of the dummy Remote.

(c) Allocate the dummy Remote to the required wireless channel

Select the required wireless channel and click the "Insert dummy I/O" so that the set dummy Remote is displayed in the "Registered Remotes" area.

(Dummy Remote registration is not complete at this point. The status is "Registered Wait" .)

(d) **<u>Finalize</u>** dummy Remote <u>registration information</u>

Click the "Save reg. info." button to reflect the registered information. (When registration has been completed successfully, the status of the dummy Remote will change to "Registered".)

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To register a dummy Remote, it is necessary to set the number of inputs / outputs beforehand. If a Remote with inputs / outputs which are different from the set numbers is registered, the I/O map must be changed. Care should be taken.



3.7 Software Control

"HOLD/CLR setting (unit): Software control" of "Base / Remote setting", the output operation for when the Ethernet communication is disconnected, can be selected for valve output or output unit independently, in 1-point units, using "CLEAR", "HOLD", or "SET". The values for the Hold / Clear for each valve output or output unit are stored in the unit with outputs.

Set value	Description
HOLD	Maintain the value before Hold / Clear.
CLEAR	0 for Hold / Clear
SET	1 for Hold / Clear

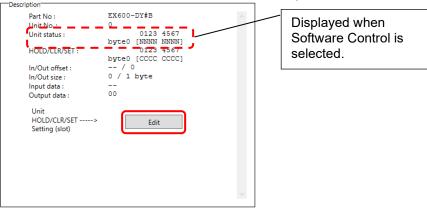
* Editing is possible from the "Description" on the Information tab when "HOLD/CLR (unit)" is set to "Software Control". In order to set "HOLD/CLR (unit)" to "Software Control", change the setting using "Base setting" or "Remote setting" in the "Properties" tab.

* The output operation when wireless communication is disconnected is "HOLD" regardless of the setting of Software Control.

Hold / Clear setting procedure

(1) Display the description of the output unit.

(For how to display the description, refer to "5.1.2 System configuration area".)



(2) The window for Unit HOLD/CLR/SET setting appears by clicking the [Edit] button.

Unit HOLD/CLR/SET setting (Admin Mode)	×	
Selected unit: EX600-WEN# (Unit2)		
HOLD/CLR/SET:		
Software control	\sim	
EX600-WEN# (Unit2) byte 0		From the left
2000000		Bit 0, 1, 2, 3, 4, 5, 6, 7
EX600-WEN# (Unit2) byte 1	-	Dit 0, 1, 2, 3, 4, 5, 0, 7
2000000		
EX600-WEN# (Unit2) byte 2		
2222222		
EX600-WEN# (Unit2) byte 3		
CCCCCCCC		
	\sim	
Save all Quit		



(3) Upper case letters are used to express the current status of Clear / Hold. The settable values are C (CLEAR), H (HOLD) or S (SET). Enter 8 characters. When the required values have been entered, click the "Save all" to store the data.

Unit HOLD/CLR/SET setting (Admin Mode)	×
Selected unit: EX600-WEN# (Unit2)	
HOLD/CLR/SET:	
 Software control 	\sim
EX600-WEN# (Unit2) byte 0	
CCCCCCCC	
EX600-WEN# (Unit2) byte 1	
нсѕѕснсс	
EX600-WEN# (Unit2) byte 2	
EX600-WEN# (Unit2) byte 3	
CCCCCCCC	
	~
Save all Quit	

* When CLEAR or HOLD is set for HOLD/CLR/SET, the window below will be displayed.

Unit HOLD/CLR/SET setting (Admin Mode)	Unit HOLD/CLR/SET setting (Admin Mode) X
Selected unit: EX600-WEN# (Unit2)	Selected unit: EX600-WEN# (Unit2)
HOLD/CLR/SET:	HOLD/CLR/SET:
Save all Quit	Save all Quit

Hold / Clear / Set: CLEAR Hold / Clear / Set: HOLD



3.8 Using a setting file

The [Export] button in the Properties tab enables the setting of the connected unit using the current NFC reader / writer to be saved to a PC in the format of ".smc". Importing as explained in the next item enables the unit setting to be reflected in other units.

Procedure for exporting the settings

(1) Click [Export]

Information I/O monitor Propertie	5	
© Base setting C	Ethernet setting Import Reset module	Refresh
○ Remote registration ○) System setting Export	Power on R/W detected
Base setting]
HOLD/CLR (unit):	CLEAR ~	Save all
Input size:	128 points/16 byte ~	Read factory data
Output size:(includes valves)	128 points/16 byte ~	Product initialization
in which include	s a valve density of: 32 points/4 byte ~	
Wireless signal:	Active	
Unit address order	● Mode 1 ○ Mode 2	
L		

(2) Input the file name and store the file.

Save As	×
$\leftarrow \rightarrow$ \checkmark \bigstar This PC \rightarrow Documents	✓ Č Search Documents
Organize 👻 New folder	*** ?
This PC 3D Objects Desktop Documents Downloads Music Pictures	No items match your search.
Videos Windows (C:) Recovery Image	
File name example.smc	~
Save as type: settting file(*.smc)	Ý
∧ Hide Folders	Save Cancel



Procedure for importing the settings

(1) Click the "Import" button.

Information I/O monitor Properties	;	
Control panel		
Base setting	Ethernet setting Import Reset module	Refresh
○ Remote registration ○	System setting Export	Power on R/W detected
Base setting		
HOLD/CLR (unit):	CLEAR ~	Save all
Input size:	128 points/16 byte	Read factory data
Output size:(includes valves)	128 points/16 byte	Product initialization
in which includes	a valve density of: 32 points/4 byte *	
Wireless signal:	Active ~	
Unit address order	SI SI 0 1 2 1 0 Mode 1 Mode 2	

(2) Select the required file and click [Open]. Select "Yes" to execute the import of settings.

📴 Open	×
$\leftarrow \rightarrow$ \checkmark \bigstar This PC \Rightarrow Documents	✓ Č Search Documents
Organize 👻 New folder	BB - III ()
This PC This PC Desktop Comments Downloads Music Pictures Videos Windows (C:) Recovery Image HP_TOOLS (E:)	
File name:	v settting file(*.smc) v Open Cancel



	Ba	Base		
	EX600- WEN#	EX600- WPN#	EX600- WSV#	
	HOLD/CLR (unit)	ОК	ОК	ОК
	Input size	OK	OK	ОК
	Output size (includes valves)	OK	OK	ОК
	in which includes a valve density of	ОК	ОК	ОК
Base settings/Remote settings	Wireless signal	ОК	ОК	ОК
Dube counger terrete counge	AD refresh time (sec)	-	-	ОК
	Unit address order	ОК	ОК	ОК
	Power Supply Voltage Monitor (Control/Input)	-	-	-
	Power Supply Voltage Monitor (Output)	-	-	-
Remote registration / pairing setting	Normal / pairing modes	-	-	-
	IP address type	ОК	-	-
	IP address	ОК	-	-
Ethernet setting	Auto MDI / MDI-X	ОК	-	-
	Duplex	OK	-	-
	Speed	ОК	-	-
	I/O mapping	OK	-	-
	System input size	OK	-	-
Ourstans a still a	System output size	OK	-	-
System setting	Diagnostic allocation	ОК	ОК	-
	Max. Remote units	ОК	ОК	-
	DA refresh time (sec)	ОК	ОК	-

- Export/import settings (EX600 series)



	Item	EXW1- BMJA#	EXW1- BDNAC	EXW1- BECAC	EXW1- BENAC1	EXW1- BPNAC1
Remote	Normal / pairing modes	-	-	-	-	-
registration / pairing setting	FCS Setting	ОК	ок	ОК	ок	ОК
	IP address type	-	-	-	ОК	-
	IP address	-	-	-	BENAC1 - OK OK	-
	Subnet Mask	-	-	-	ОК	-
Ethernet setting	Default Gateway	-	-	-	ОК	-
	Auto MDI / MDI-X	-	-	-	ОК	-
	Duplex	-	-	-	ОК	-
	Speed	-	-	-	OK	-
EtherCAT setting	Custom setting					
	Security Mode	-	-	-	OK	OK
000110	Security Policy	-	-	-	OK	OK
OPC UA setting	Anonymous Login	-	-	-	OK	OK
	OPCUA Write Enable	-	-	-	OK	OK
	Operating mode	OK	-	-	-	-
CC-Link setting	Speed	OK	-	-	-	-
	Number of slave stations	OK	-	-	-	-
	MAC ID	-	ОК			
DeviceNet setting	Baud Rate	-	ОК			
	QuickConnect™	-	ОК			
	I/O mapping	ОК	ОК	ОК	ОК	ОК
	System input size	-	ОК	-	ОК	-
	System output size	-	ОК	-	ОК	-
	Diagnostic allocation	OK	ОК	ОК	ОК	ОК
	DA refresh time (sec)	OK	-	-	-	-
	Output Action of Upper Communication	ОК	-	-	-	-
System setting	Time of Wireless Communication / Wireless communication timeout	ОК	ОК	ОК	ОК	ОК
	Input Information of Wireless Communication	ОК	-	-	-	-
	Power Transmission Level	-	ОК	ОК	ОК	ОК
	Wireless signal	OK	ОК	ОК	ОК	ОК
	Protocol	OK	OK	OK	OK	OK
	Time Information	-	-	-	-	-
Information tab	TAG	OK	OK	OK	OK	OK

- Import / Export settings (EXW1 series Base)



		<i>.</i>		
- Import /	/ Export setting	s (FXW1	series	Remote)
inipoir,	Export ootting		001100	i tonioto)

			Remote	
	Item	EXW1- RDXNE4#	EXW1- RDYNE4#	EXW1- RDM#E3##
	HOLD/CLR (unit)	-	-	-
	Input size	ОК	ОК	ОК
	Output size (includes valves)	ОК	ОК	ОК
	in which includes a valve density of	-	-	-
Remote setting	Wireless signal	ОК	ОК	ОК
	Power Supply Voltage Monitor (Control/Input)	ОК	ОК	ОК
	Power Supply Voltage Monitor (Output)	-	ОК	ОК
	Output Action of Upper Communication	-	ОК	OK
	Output action when wireless community to cut off.	-	ОК	OK
Remote	Normal / pairing modes	-	-	_
registration / pairing setting	FCS Setting	-	-	-
Information tab	TAG	ОК	OK	ОК



3.9 Reading of factory data

Click the [Read factory data] button to initialize or check the parameters in the <u>window currently opened</u> in the [Properties] tab (excluding Remote unit registration and pairing setting).

In order to reflect the setting, turn off the power and on again or click [Reset module] when the power <u>is on</u>. Turn on the power supply if the power <u>is off</u>.

Information I/O monitor Propertie	5	
Control panel Base setting	Ethernet setting Import Reset module	Refresh
O Remote registration C	System setting Export	Power on R/W detected
Base setting		
HOLD/CLR (unit):	CLEAR ~	Line over
Input size:	128 points/16 byte ~	Read factory data
Output size:(includes valves)	128 points/16 byte ~	Product initialization
in which include	s a valve density of: 32 points/4 byte ~	
Wireless signal:	Active ~	
Unit address order	SI SI 0 1 0 Mode 1 ○ Mode 2	

- ◆ Factory data settings which can be read:
- Wireless Base : Base setting, Ethernet setting, EtherCAT setting, CC-Link setting, DeviceNet setting, System setting, OPC UA setting
- Wireless Remote: Remote setting



3.10 Initialization of the product

To initialize the product, in the [Properties] tab, click [Product initialization] in [Base setting] or [Remote setting].

Base setting	 Ethernet setting 	Import	Reset module	Refresh
Remote registration	○ System setting	Export		Power on R/W detected
Base setting	-			
HOLD/CLR (unit):	CLEAR		v	Save all
Input size:	128 points/16 byte		v	Pood factory data
Output size:(includes valves)	128 points/16 byte		v	Product initialization
in which in	cludes a valve density of:	32 points/4 byte	~	
Wireless signal:	Active		~	
Unit address order	Г	SI	SI	

0

After executing initialization, this function saves and reflects the setting, and updates the information in the window. The operation is not reversible. Care should be taken.
With an EXW1-RD#, initializing the product results in switching to pairing mode.



Some values settable by the I/O Configurator (Web version) are included in the initialization items. Refer to the table below for the set items to be initialized.

	Initiali	zed items	Ba	ise	Remote
	muanz		EX600-WEN#	EX600-WPN#	EX600-WSV#
		HOLD / CLR (unit)	OK	ОК	OK
		Input size	OK	ОК	OK
		Output size	ОК	ОК	OK
		in which includes a valve density of	ОК	ОК	ОК
	Base / Remote	Wireless signal	ОК	OK	OK
	settings	AD refresh time (sec)	-	-	OK
		Unit address order	ОК	ОК	OK
		Power Supply Voltage Monitor (Control/Input)	-	-	-
		Power Supply Voltage Monitor (Output)	-	-	-
	Remote	Pairing mode	ОК	ОК	OK
Properties	registration	Info. registered in Base	-	-	OK
tab	Pairing setting	Pairing mode	ОК	ОК	OK
	Paining setting	Info. registered in Remote	ОК	OK	-
	Ethernet setting	IP address type	ОК	-	-
		IP address	ОК	-	-
		Auto MDI / MDI-X	ОК	-	-
		Duplex	ОК	-	-
		Speed	OK	-	-
		I/O mapping	OK	-	-
		System input size	OK	-	-
	Sustam astting	System output size	OK	-	-
	System setting	Diagnostic allocation	OK	OK	-
		Max. Remote units	OK	OK	-
		DA refresh time (sec)	OK	OK	-
Information tab	Description	TAG	ОК	ОК	ОК

Initialization items (I/O Configurator (NFC version) (EX600 series))



4. I/O monitoring

In the [I/O monitor] tab, the I/O mapping data can be monitored.

4.1 Input

Shows the input mapping information of the wireless unit.

					Refresh
ut Outpu	ıt				Power on R/W detected
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status
0		0EE1401E	0x00	00000000	System diagnose data
1		0EE1401E	0x00	00000000	System diagnose data
2		0EE1401E	0x00	00000000	System diagnose data
3		0EE1401E	0x00	00000000	System diagnose data
4		0EE1401E	0x06	00000110	Remote connection information
5		0EE1401E	0x00	00000000	Remote connection information
6		0EE1401E	0x00	00000000	Remote diagnose information
7		0EE1401E	0x00	00000000	Remote diagnose information
8		0EE1401E	0x06	00000110	Remote registration information
9		0EE1401E	0x00	00000000	Remote registration information
10		0EE1401E	0x00	00000000	Base input
11		0EE1401E	0x00	00000000	Base input
12		0EE1401E	0x00	00000000	Base input
13		0EE1401E	0x00	00000000	Base input
14		0EE1401E	0x00	00000000	Base input
15		0EE1401E	0x00	00000000	Base input
16		0EE1401E	0x00	00000000	Base input
17		00014010	0.00	0000000	D (4

- Input display

Display Description						
ADRS	Displays the input map address.					
W.ch	Wireless unit channel.					
vv.cn	(Wireless channel of the Base is displayed as [].					
PID	Wireless unit PID.					
Data (byte)	Input data is displayed in bytes.					
Data (bit)	Input data is displayed in bits.					
Description/Status	Details of input data.					



4.2 Output

Shows the output mapping information of the wireless unit.

					Enforce ON Refresh
ut Outpu	t				Power on R/W detected
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status
0		0EE1401E	0x00	00000000	Base output
1		0EE1401E	0x00	00000000	Base output
2		0EE1401E	0x00	00000000	Base output
3		0EE1401E	0x00	00000000	Base output
4		0EE1401E	0x00	00000000	Base output
5		0EE1401E	0x00	00000000	Base output
6		0EE1401E	0x00	00000000	Base output
7		0EE1401E	0x00	00000000	Base output
8		0EE1401E	0x00	00000000	Base output
9		0EE1401E	0x00	00000000	Base output
10		0EE1401E	0x00	00000000	Base output
11		0EE1401E	0x00	00000000	Base output
12		0EE1401E	0x00	00000000	Base output
13		0EE1401E	0x00	00000000	Base output
14		0EE1401E	0x00	00000000	Base output
15		0EE1401E	0x00	00000000	Base output
16	001	0B114018	0x00	0000000	Remote output
17	001	00114010	0.00	0000000	D

- Output display

Display	Description
Enforce ON	Forced output mode can be selected by clicking [Enforce ON].
Enlore ON	* Refer to "4.4 Forced output" for details on operation.
ADRS	Displays the output map address.
W.ch	Wireless unit channel.
VV.CII	(Wireless channel of the Base is displayed as [].
PID	Wireless unit PID.
Data (byte)	Output data is displayed in bytes.
Data (bit)	Output data is displayed in bits.
Description/Status	Details of output data.



4.3 Detailed Input / output information

The IO Detail window will open by double-clicking the line of an address of the I/O unit which is connected to the wireless unit.

					Refresh	
					Power on	
ut Outpu	ut				R/W detecte	ed
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status	
25		0EE1401E	0x00	00000000	Base input	
26	001	0B114018	0x00	00000000	Remote input	
27	001	0B114018	0x00	00000000	Remote input	
28	001	0B114018	0x00	00000000	Remote input	
29	001	0B114018	0x00	00000000	Remote input	
30	001	0B114018	0x00	00000000	Remote input	
31	001	0B114018	0x00	00000000	Remote input	
32	001	0B114018	0x00	00000000	Remote input	
33	001	0B114018	0x00	00000000	Remote input	
34	001	0B114018	0x00	00000000	Remote input	
35	001	0B114018	0x00	00000000	Remote input	
36	001	0B114018	0x00	00000000	Double-click	
37	001	0B114018	0x00	00000000		
38	001	0B114018	0x00	00000000	Remote input	
39	001	0B114018	0x00	00000000	Remote input	
40	001	0B114018	0x00	00000000	Remote input	
41	001	0B114018	0x00	00000000	Remote input	

The diagnostic error type is represented by different background colours. The meaning of a background colour can be checked by clicking [>>].

<u></u> (C) Detail								_		×			
	-IO Unit Information -	PID : OB	114018						Refre	ch	1	BG co	lor det	tail
	v	/.ch : 1	600-WSV#						Keire	511]			Open
	Unit of	No : EX fset : 30 No. : 1	600-DX#D							>>				Short
	Part No	Data(byte)		B6	B5	B4	B3	B2	B1	ВО				Count Over
	EX600-DX#D EX600-DX#D	0	0	0	0	0	0	0	0	0				
					Enforce			Qu	uit					
						_								

I/O details vary depending on the unit. Refer to "5.2.3 IO details" for further details.



4.4 Forced output

4.4.1 Forced output conditions

The I/O Configurator (NFC version) can directly command the Wireless Base / Remote.

Operating conditions for forced output.

	[Forced output from the Wireless Base]	[Forced output from the Wireless Remote]
Forced output conditions	Login to Administrator mode. Not connected with the PLC by Ethernet.	Login to Administrator mode. Not wirelessly connected with Wireless Base.
Applicable item for forced output	Wireless Base / Remote	Wireless Remote

Forced output procedure (digital unit)

Forced output is performed in forced output mode. Data can be output in either bit or byte units.

[Forced output in bit units]

Click the [I/O monitor] tab, and switch to the [Output] tab. Check mark the "Enforce ON" box at the upper right of the window. In the dialog box select [Yes] to confirm enabling forced output.

					Enforce ON Refresh
					Power on
ut Outpu	it				R/W detected
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status
0		0EE1401E	0x00	0000000	Base output
1		0EE1401E	0x00	0000000	Base output
2		0EE1401E	0x00	0000000	Base output
3		0EE1401E	0x00	00000000	Base output
4		0EE1401E	0x00	00000000	Base output
5		0EE1401E	0x00	00000000	Base output
6		0EE1401E	0x00	00000000	Base output
7		0EE1401E	0x00	00000000	Base output
8		0EE1401E	0x00	00000000	Base output
9		0EE1401E	0x00	00000000	Base output
10		0EE1401E	0x00	00000000	Base output
11		0EE1401E	0x00	00000000	Base output
12		0EE1401E	0x00	0000000	Base output
13		0EE1401E	0x00	0000000	Base output
14		0EE1401E	0x00	0000000	Base output
15		0EE1401E	0x00	00000000	Base output
16	001	0B114018	0x00	00000000	Remote output
17	001	00114010	0.00	0000000	Damaska arrikurisk



The window below appears when the mode is changed to forced output mode. Select the output unit to change to forced output and double-click it.

					Enforce ON Refre	sh
out Outpu	ıt				Powe R/W det	
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status	
0		0EE1401E	N/A	N/A	Base output	
1		0EE1401E	N/A	N/A	Base output	
2		0EE1401E	N/A	N/A	Base output	
3		0EE1401E	N/A	N/A	Base output	
4		0EE1401E	N/A	N/A	Pass output	
5		0EE1401E	N/A	N/A	Double-click	
6		0EE1401E	N/A	N/A		
7		0EE1401E	N/A	N/A	Base output	
8		0EE1401E	N/A	N/A	Base output	- 1
9		0EE1401E	N/A	N/A	Base output	
10		0EE1401E	N/A	N/A	Base output	
11		0EE1401E	N/A	N/A	Base output	
12		0EE1401E	N/A	N/A	Base output	
13		0EE1401E	N/A	N/A	Base output	
14		0EE1401E	N/A	N/A	Base output	
15		0EE1401E	N/A	N/A	Base output	
16	001	0B114018	N/A	N/A	Remote output	
17	001	00114010	N1/A	NI/A	D	



In the [IO Detail] window, select the bit (B0 to B7) to change to forced output and set to "1". The set value is output by clicking the [Enforce] button at the bottom of the window.

The power supply for the output unit is necessary to activate the output equipment for forced output mode. Refer to the Operation Manual for the SMC Wireless System for details of the power supply for output.

see IC) Detail										-		×
	IO Unit Information -												
		PID	:	0EE1401	E								
	Unit	TAG	:	EX600-V	VEN#						Refr	esh	
	v	V.ch	:	Base									
	Part	No	:	EX600-D	Y#B								
	Unit of	fset		0									
	Unit	No.		0								>>	•
	Part No		Data	a(byte)	B7	B6	B5	B4	B3	B2	B1	BO	
	EX600-DY#B			1	0	0	0	0	0	0	0	1 ~	1)
					1		5.6		ר ו	0	uit		
							Enforce		┚└	Q	un		

[Forced output in byte units]

Enter the value between 0x00 and 0xFF in "Data(byte)". The value in bytes is output by clicking the [Enforce] button.

IO Unit Information —											
	PID	:	0EE1401	E							
Unit T/	AG		EX600-W	/EN#						Refres	h
W.	.ch	:	Base								
Part 1	No	:	EX600-D	Y#B							
Unit off	set		0								
Unit N	No.		0								>:
Part No		Data	(byte)	B7	B6	B5	B4	B3	B2	B1	BO
EX600-DY#B				0	1	0	1	0	1	0	1
	_					0		,		°	



Forced output (analog unit)

For forced output for an analog unit, enter the values according to the analog range. The analog range can be selected by the I/O Configurator (Web version). Enter the values. The analog value will be output by clicking the [Enforce] button.

The power supply for the output unit is necessary to activate the output equipment for forced output mode. Refer to the Operation Manual for the SMC Wireless System for details of the power supply for output.

🚾 IO Detail	- 🗆 X
O Unit Information	
PID : 0B114018	
Unit TAG : EX600-WSV#	Refresh
W.ch : 1	
Part No : EX600-AMB	
Unit offset : 16	
Unit No. : 0	
0.00 ⇒ 1.00 CH0: 0.01 V (OK CH1: 0.00 V (OK	0
Enforce	Quit

If the entered value is outside the settable range, the dialog box below will be displayed. Enter a value again.

ς



Exiting forced output mode

Remove the check mark in the "Enforce ON" box to exit forced output mode. In the dialog box, to confirm exiting forced output mode, select [Yes]. Continue by clicking [Yes] on the following window. Forced output mode is exited. Click the [Refresh] button to update the information in the window. Forced output mode also can be exited by turning off the power supply.

					Enforce ON Refres	h
nput Outpo	ut				Power R/W dete	
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status	^
0		0EE1401E	N/A	N/A	Base output	
1		0EE1401E	N/A	N/A	Base output	
2		0EE1401E	N/A	N/A	Base output	
3		0EE1401E	N/A	N/A	Base output	
4		0EE1401E	N/A	N/A	Base output	
5		0EE1401E	N/A	N/A	Base output	
6		0EE1401E	N/A	N/A	Base output	
7		0EE1401E	N/A	N/A	Base output	
8		0EE1401E	N/A	N/A	Base output	
9		0EE1401E	N/A	N/A	Base output	
10		0EE1401E	N/A	N/A	Base output	
11		0EE1401E	N/A	N/A	Base output	
12		0EE1401E	N/A	N/A	Base output	
13		0EE1401E	N/A	N/A	Base output	
14		0EE1401E	N/A	N/A	Base output	
15		0EE1401E	N/A	N/A	Base output	
16	001	0B114018	N/A	N/A	Remote output	
47	001	00114010	N1/A	NI/A	D	>

0

- The operation after exiting forced output is different for Wireless Base and Remote. Wireless Base: Values set while in forced output mode are retained after exiting. Wireless Remote: Values set while in forced output mode are not retained.



5. Screen details of the I/O Configurator (NFC version)

5.1 Information tab

The Information tab consists of "Unit information", "System configuration" and "Description".

Unit information	Information I/O monitor Prop Onit information Part No: PID Firmware version: Module in/out size: Online/All Remotes:	erties EX600-WEN# 0EE1401E 9.0.2 16 / 16 byte 2 / 5 Remotes	MAC address: IP address: SUBNET MASK: System I/O size:	00:23:C6:26:0B:4F 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected	Description
System configuration	Bystem consiguration W.ch Part No EX600-WEN# 001 EX600-WSV## 002 EX600-WSVP## 003 Dummy 004 Dummy 005 Dummy	-X41	Description Part No : PID : TAG : Unit status : HOLD/CLR/SET : In/Out offset : In/Out size : I/O available : Input data : Output data : RSSI average : Edit TAG	EX600-WEN 0E1401E EX600-WEN 00 00 00 00 0K CLEAR 10 / 0 16 / 16 byte 2 / 5 byte 14 / 11 byte 00 00 00 00 00 00 00 -27 dBm		

5.1.1 Unit information area

The unit information area indicates the module information.

Unit information			
Part No:	EX600-WEN#	MAC address:	00:23:C6:26:0B:4F
PID	0EE1401E	IP address:	0.0.00
Firmware version:	9.0.2	SUBNET MASK:	0.0.0.0
Module in/out size:	16 / 16 byte	System I/O size:	160 / 160 byte
Online/All Remotes:	2 / 5 Remotes		

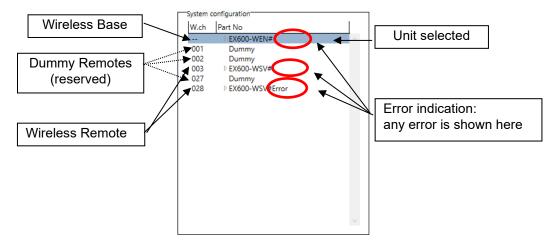
- Unit information display

Diamlay	Description	NFC access		
Display	Description	Power on	Power off	
Part No	Unit product number.	Yes	Yes	
PID	Unit PID.	Yes	Yes	
Firmware version	Displays software version of the unit.	Yes	Yes	
MAC address	Unit MAC address.	Yes	Yes	
IP address	Unit IP address.	Yes	No	
SUBNET MASK	Subnet mask of unit.	Yes	No	
Module in / out size	Control input and output size of the unit.	Yes	No	
Online / All Remotes	Indicates the number of online Remotes / registered Remotes.	Yes	No	
System I/O size	Number of input and output points in the wireless system.	Yes	No	

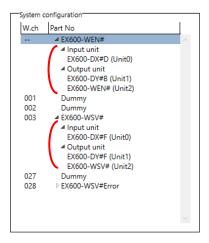


5.1.2 System configuration area

The system configuration area shows the configuration information of the Wireless Base / Remote module.



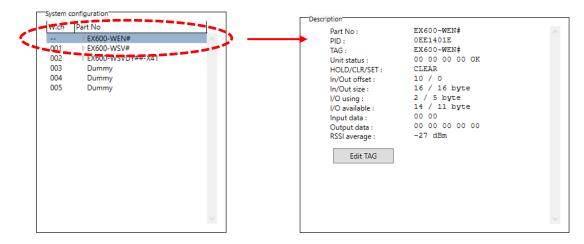
Connected I/O units can be checked by double-clicking on a wireless unit displayed in the system configuration area or clicking on the "▶" to the left.





5.1.3 Description area

Description of the unit selected in the system configuration area.



- 5.1.4 Information tab, description
- 5.1.4.1 Wireless unit (manifold type)

1) Communication unit

Information I/O monitor Properties			
Unit Information Part No: EX600-WEN# PID 0EE1401E Firmware version: 9.0.2 Module in/out size: 16 / 16 byte Online/All Remotes: 2 / 5 Remotes	MAC address: IP address: SUBNET MASK: System I/O size:	00:23:C6:26:0B:4F 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected
System configuration W.ch Part No -	Description Part No : PID : TAG : Unit status : HOLD/CLR/SET : In/Out size : I/O available : I/O available : Input data : Output data : RSSI average : Edit TAG	EX600-WEN# OEE1401E EX600-WEN# 00 00 00 00 OK CLEAR 10 / 0 16 / 16 byte 2 / 5 byte 14 / 11 byte 00 00 00 00 00 00 00 00 -27 dBm	



- Description display (communication unit)

Display	Description		
Part No	Wireless unit product number.		
PID	Wireless unit PID.		
TAG	Wireless unit user tag number.		
Unit status	The wireless unit status is displayed in 4 bytes as hexadecimal numbers. Display for diagnostic information error Diagnostic information 1 Unit status : B0 00 00 00 ShortCircuit Diagnostic information 2 * Refer to the Operation Manual for details of diagnostic information. 		
HOLD / CLR / SET	Displays the output operation when communication of the wireless unit is disconnected.		
In / Out offset	Displays the start position of the address to which the selected unit is mapped on the I/O map.		
In / Out size	Control input and output size of the wireless unit.		
I/O using	The number of allocated input and output bytes actually used by the wireless unit.		
I/O available	The number of allocated input and output bytes which are available for use by the wireless unit.		
Input data	Displays input data value which is sent to the wireless unit.		
Output data	Displays output data value sent from the wireless unit.		
RSSI average	The average radio wave strength received by the wireless unit.		



2) Valve

Information I/O monitor Properties		
Unit information Part No: EX600-WEN# PID 0EE1401E Firmware version: 9.0.2 Module in/out size: 16 / 16 byte Online/All Remotes: 2 / 5 Remotes	MAC address: 00:23:C6:26:08:4 IP address: 0.0.0 SUBNET MASK: 0.0.0 System I/O size: 160 / 160 byte	IF Refresh Power on R/W detected
System configuration W.ch Part No 	byte0 [byte1 [byte2 [0123 4567 NNNN NNNN] NNNN NNNN] NNNN NNNN] NNNN NNNN]

- Description display (valve)

Display	Description			
Part No	Wireless Base / Remote product number.			
Unit No.	Mapped position for the valve. Displays the mapped position of the selected digital input unit. * Refer to "5.3.2 Properties", "Unit address order" for details on mapped position.			
	Displays the mapped diagnostic data bits for the selected valve.			
Unit status	Address in the unit byte0 Content of diagnostic * Content of diagnostics Content of diagnostics * Normal Error is not detected O: Bit Open Load is not connected (disabled at initial status) S: Bit Short Short circuit of the load output is detected L: Limit Over Contact operation exceeded the limit (disabled at initial status) P: Power Short Short circuit of the load power supply is detected			
HOLD / CLR / SET	Output operation when communication of the valve is disconnected.			
In / Out offset	Displays the start position of the address to which the selected unit is mapped on the I/O map.			
In / Out size	Valve input / output size. Input size is always 0 bytes.			
Input data	"" is displayed for the valve (setting is only applicable to units with inputs).			
Output data	Displays the data which is sent from the valve.			



5.1.4.2 IO unit (digital) Digital input unit (product number: EX600-DX#D)

Information I/O monit	tor Properties			
Unit information Part No: PID Firmware version: Module in/out size: Online/All Remotes: System configuration		MAC address: IP address: SUBNET MASK: System I/O size:	00:23:C6:26:08:4F 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected
W.ch Part No 4 EX600-1 ✓ Input EX600 ✓ Outpu EX600 ✓ EX600 EX600 001 ▷ EX600-1	VEN# unit -DX#D (Unit1) ut unit -DY#B (Unit0) -DVEN# (Unit2) WSV# WSVDY#+-X41	Part No : Unit No. : Unit status : HOLD/CLR/SET : In/Out offset : In/Out size : Input data : Output data :	EX600-DX#D 1 0123 456 byte0 [NNNN NNN byte1 [NNNN NNN 10 / 2 / 0 byte 00 00 	N]

Digital output unit (product number: EX600-DY#B)

Information I/O monitor Properties		
Unit information Part No: EX600-WEN# PID 0EE1401E Firmware version: 9.0.2 Module in/out size: 16 / 16 byte Online/All Remotes: 2 / 5 Remotes System configuration	MAC address: 00:23:C6:26:08:4F IP address: 0.0.00 SUBNET MASK: 0.0.00 System I/O size: 160 / 160 byte	Refresh Power on R/W detected
W.ch Part No 4 EX600-WEN# 4 Input unit EX600-DX#D (Unit1) 4 Output unit EX600-DV#B (Unit2) EX600-DV#B (Unit2) EX600-WSV# 001 EX600-WSV# 002 EX600-WSV# 003 Dummy 004 Dummy 005 Dummy	Part No: EX600-DY#B Unit No.: 0 Unit status: 0123 456 byte0 [NNNN NNN HOLD/CLR/SET: CLEAR In/Out offset: Output data: Output data: 00 Unit HOLD/CLR/SET> Edit Setting (slot)	



Digital input / output unit (product number: EX600-DM#F)

Information I/O monitor Properties			
Unit information Part No: EX600-WEN# PID 0821400A Firmware version: 1.1.0 Module in/out size: 16 / 16 byte Online/All Remotes: 2 / 5 Remotes	MAC address: IP address: SUBNET MASK: System I/O size:	00:23:C6:26:05:4C 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected
System configuration W.ch Part No 4 EX600-WEN# 4 Input unit EX600-DX#D (Unit0) EX600-DM#F (Unit2) EX600-AXA (Unit3) 0 Output unit 001 Dummy 002 Dummy 003 EX600-WSV# 027 Dummy 028 EX600-WSV#	Description Part No : Unit No. : Unit status : HOLD/CLR/SET : In/Out offset : In/Out offset : In/Out size : Input data : Output data : Unit HOLD/CLR/SET Setting (slot)	18 / 1 1 / 1 byte 00 00	ŋ
×			Ŧ

Display	Description				
Part No	Displays the product number of the digital unit (input, output, input / output).				
l luit N la	Displays the mapped position of the digital unit (input, output, input / output).				
Unit No.	* Refer to "5.3.2 Properties", "Unit address order" for details on mapped position.				
	Displays the mapped diagnostic data bits for the digital unit (input, output, input / output).				
Unit status	Address in the unit Example: byte 1, bit 3				
	* Content of diagnostic				
	N: Normal Error is not detected				
	O: Bit Open Load is not connected (disabled at initial status)				
	S: Bit Short Short circuit of the load output is detected				
	L: Limit Over Contact operation exceeded the limit (disabled at initial status)				
	P: Power Short Short circuit of the load power supply is detected				
	"" is displayed for an input unit.				
HOLD / CLR / SET Displays the output operation when communication of an output unit or inp disconnected.					
	Displays the start position of the address to which the selected unit is mapped on the I/O				
In / Out offset	map.				
	Input size is shown for an input unit. Output size is always 0 bytes.				
In / Out size	Output size is shown for an output unit. Input size is always 0 bytes.				
	Both input and output sizes are shown for an input / output unit.				
	"" is displayed for an output unit.				
Input data	Displays input data value which is sent to an input unit or input / output unit.				
• • • • •	"" is displayed for an input unit.				
Output data	Displays output data value which is sent from an output unit or input / output unit.				



5.1.4.3 IO unit (analog) Analog input unit (product number: EX600-AXA)

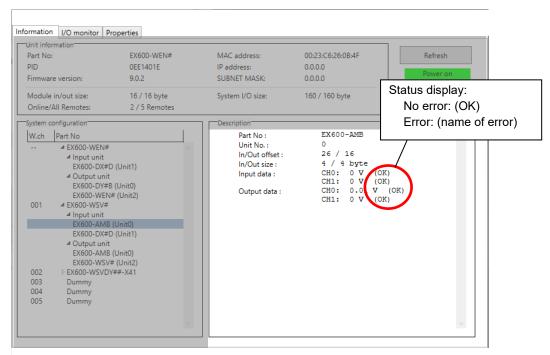
Information I/	/O monitor	Properties				
Unit informati Part No: PID Firmware ve Module in/ou Online/All Re	ersion: ut size: emotes:	EX600-WEN# 0B21400A 1.1.0 16 / 16 byte 2 / 5 Remotes		MAC address: IP address: SUBNET MASK: System I/O size:	00:23:C6:26:05:4C 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected Status display:
001 D 002 D 003 PE		≠D (Unit0) #F (Unit2) 8 (Unit3) (Unit5)	*	Description Part No : Unit No. : In/Out offset : In/Out size : Input data : Output data :	EX600-AXA 5 23 / 4 / 0 byte CH0: 0.75 V CH1: 3 mA	No error: (OK) Error: (name of error)
028	:X600-WSV#	*	+			

Analog output unit (product number: EX600-AYA)

Information I/O monitor Properties			
Unit information Part No: EX600-WEN# PID 0B21400A Firmware version: 1.1.0 Module in/out size: 16 / 16 byte Online/All Remotes: 2 / 5 Remotes System configuration	IP address: SUBNET MASK:	00:23:C6:26:05:4C 0.0.0.0 0.0.0.0 160 / 160 byte	Refresh Power on R/W detected Status display:
W.ch Part No 4 EX600-WEN# > Input unit > 4 Output unit EX600-DY#B (Unit1) EX600-DM#F (Unit2) EX600-AMB (Unit3) EX600-AYA (Unit4) EX600-WEN# (Unit6)	Part No : Unit No. : In/Out offset : In/Out size : Input data : Output data :	EX600-AYA 4 / 6 0 / 4 byte CH0: 0.75 V CH1: 0.75 V	No error: (OK) Error: (name of error)
001 Dummy 002 Dummy 003 EX600-WSV# 027 Dummy 028 EX600-WSV#			-



Analog input / output unit (product number: EX600-AMB)



- Description display (analog unit)

Display	Description			
Part No	Displays the product number of the analog unit (input, output, input / output).			
Unit No.	Displays the mapped position of the analog unit (input, output, input / output). * Refer to "5.3.2 Properties", "Unit address order" for details on mapped position.			
In / Out offset Displays the start position of the address to which the selected unit is mapped on the I map.				
In / Out size	Input size is shown for an input unit. Output size is always 0 bytes. Output size is shown for an output unit. Input size is always 0 bytes. Both input and output sizes are shown for an input / output unit.			
Input data "" is displayed for an output unit. Displays input data value which is sent to an input unit or input / output unit.				
Output data "" is displayed for an input unit. Displays output data value which is sent from an output unit or input / output				



5.2 I/O monitor tab

In the I/O monitor tab, the wireless unit I/O mapping data can be monitored when the power status is "Power on". Diagnostic information or details of input / output can be checked by double-clicking any address line in the display. Forced output mode can be selected in the [Output] tab.

5.2.1 Input tab

The input tab shows the input mapping information of the wireless unit.

rmation		Properties			
					Refresh
_					Power on
ut Outpu	ıt				R/W detected
ADRS	W.ch	PID	Data(byte)	Data(bit)	Description/Status
0		0EE1401E	0x00	00000000	System diagnose data
1		0EE1401E	0x00	00000000	System diagnose data
2		0EE1401E	0x00	00000000	System diagnose data
3		0EE1401E	0x00	00000000	System diagnose data
4		0EE1401E	0x06	00000110	Remote connection information
5		0EE1401E	0x00	00000000	Remote connection information
6		0EE1401E	0x00	00000000	Remote diagnose information
7		0EE1401E	0x00	00000000	Remote diagnose information
8		0EE1401E	0x06	00000110	Remote registration information
9		0EE1401E	0x00	00000000	Remote registration information
10		0EE1401E	0x00	00000000	Base input
11		0EE1401E	0x00	00000000	Base input
12		0EE1401E	0x00	00000000	Base input
13		0EE1401E	0x00	00000000	Base input
14		0EE1401E	0x00	00000000	Base input
15		0EE1401E	0x00	00000000	Base input
16		0EE1401E	0x00	00000000	Base input
17		00014010	A.00	0000000	n : +

- Input display

Display	Description	Displayed items
ADRS	Displays the input map address.	Base unit: 0 to 159 Remote unit: 0 to 15
W.ch	Wireless unit channel. (Wireless channel of the Wireless Base is displayed as [].	, ch001 to 127
PID	Wireless unit PID.	Individual per unit.
Data(byte)	Input data is displayed in bytes.	0x00 to 0xFF, no information
Data(bit)	Input data is displayed in bits.	00000000 to 11111111, no information
Description/ Status	Details of input data.	Base unit: - System diagnose data - Remote connection information - Remote diagnose information - Remote registration information - Base input - Remote input - Reserve input - Connection error Remote unit: - Remote input



5.2.2 Output tab

The output tab shows the output mapping information of the wireless unit.

					Enforce ON Refre	sh
_					Power	
ut Outpu	<u> </u>	PID	D : (1 ·)	D + 4 10	R/W det	ected
	W.ch		Data(byte)	Data(bit)	Description/Status	-
0		0EE1401E	0x00	0000000	Base output	
1		0EE1401E	0x00	0000000	Base output	
2		0EE1401E	0x00	0000000	Base output	
3		0EE1401E	0x00	0000000	Base output	
4		0EE1401E	0x00	00000000	Base output	
5		0EE1401E	0x00	00000000	Base output	
6		0EE1401E	0x00	0000000	Base output	
7		0EE1401E	0x00	00000000	Base output	
8		0EE1401E	0x00	00000000	Base output	_
9		0EE1401E	0x00	00000000	Base output	
10		0EE1401E	0x00	00000000	Base output	
11		0EE1401E	0x00	00000000	Base output	
12		0EE1401E	0x00	0000000	Base output	
13		0EE1401E	0x00	00000000	Base output	
14		0EE1401E	0x00	00000000	Base output	
15		0EE1401E	0x00	00000000	Base output	
16	001	0B114018	0x00	00000000	Remote output	
17	001	00114010	0.00	0000000	Dama at a start at	

- Output display

Display	Description	Displayed items
Enforce ON	Forced output mode can be selected by clicking [Enforce ON]. * Refer to "4.4 Forced output" for details of operation.	Check marked: Forced output on Not check marked: Forced output off
ADRS	Displays the output map address.	Base unit: EX600-WEN*, EX600-WPN* : 0 to 159 EXW1-BECAC : 0 to 1472 EXW1-BENAC1 : 0 to 1439 EXW1-BPNAC1 : 0 to 1307 EXW1-BDNAC : 0 to 511 Remote unit : 0 to 15
W.ch	Wireless unit channel. (Wireless channel of the Base is displayed as [].	, ch001 to 127
PID	Wireless unit PID.	Individual per unit.
Data(byte)	Output data is displayed in bytes.	0x00 to 0xFF, no information
Data(bit)	Output data is displayed in bits.	00000000 to 11111111, no information
Description/Status	Details of output data.	Base unit: - Base output - Remote output - Reserve output - Connection error Remote unit: - Remote output



5.2.3 IO details

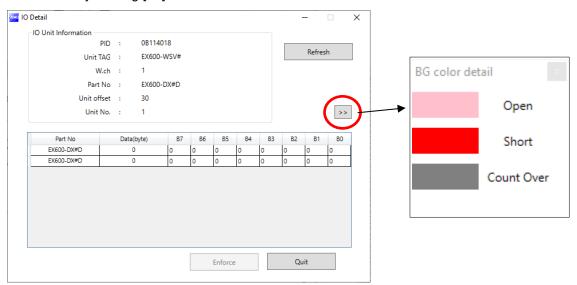
The IO Details window will open by double-clicking the line of an address of the I/O unit which is connected to the wireless unit.

				Properties	I/O monitor	rmation
fresh	Ret					
ver on						
detected						
						ut Outpu
	Description/Status	Data(bit)	Data(byte)	PID	W.ch	ADRS
	Base input	0000000	0x00	0EE1401E		21
	Base input	00000000	0x00	0EE1401E		22
	Base input	00000000	0x00	0EE1401E		23
	Base input	0000000	0x00	0EE1401E		24
	Base input	00000000	0x00	0EE1401E		25
	Remote input	00000000	0x00	0B114018	001	26
	Remote input	00000000	0x00	0B114018	001	27
	Remote input	00000000	0x00	0B114018	001	28
	Remote input	00000000	0x00	0B114018	001	29
	. Remote input	00000000	0x00	0B114018	001	30
	Remote input	00000000	0x00	0B114018	001	31
	Remote input	00000000	0x00	0B114018	001	32
	V Remote input	00000000	0x00	0B114018	001	33
	Deuble eliel	00000000	0x00	0B114018	001	34
	Double-click	00000000	0x00	0B114018	001	35
	Remote input	00000000	0x00	0B114018	001	36
	Remote input	00000000	0x00	0B114018	001	37
	D	0000000	0.00	00114010	001	20



IO unit information and input / output data can be checked in the IO Detail window.

The diagnostic error type is represented by different background colours. The meaning of a background colour can be checked by clicking [>>].



- Background colour

Background colour	Display	Description
	Open	Detection of unconnected load * Disabled in initial state. Enable the function from the I/O Configurator (Web version).
	Short	Short circuit detection
	Count Over	Contact frequency upper limit detection * Disabled in initial state. Enable the function from the I/O Configurator (Web version).

* I/O details vary depending on the unit.



5.2.4 Information tab, description5.2.4.1 Wireless unit (manifold type (valve))

Informatio	n I/O monitor	Properties													
ſ	🚾 IO Detail												x	esh	
	- IO Unit Ir	formation												r on	
Input C		PI	D:	0B2140	0A						Refree	-L-		tected	
		Unit TA	G :	EX600-	WEN#						Kerres	sn			-
ADR		W.c	:h	Base											
0		Part N	lo :	EX600-	WEN#										
1		Unit offse	et :	10										=	
2		Unit No	o. :	6								>>			
3															
4	Part	t No	Data((byte)	B7	B6	B5	B4	B3	B2	B1	B0			
	EX600-	-WEN#	()	0	0	0	0	0	0	0	0			
6 7		-WEN#)	0	0	0	0	0	0	0	0			
8		-WEN#)	0	0	0	0	0	0	0	0			
9	EX600-	-WEN#	()	0	0	0	0	0	0	0	0			
10														<u> </u>	
10														<u> </u>	
12															
13															
13							Enforce	2		Qu	it				
4															
												-			1

- IO details (manifold type (valve))

Display	Description
PID	Displays the PID of the Wireless Base / Remote to which the selected valve is connected.
Unit TAG	Displays the tag of the Wireless Base / Remote to which the selected valve is connected.
W.ch	Displays the channel name of the Wireless Base / Remote to which the selected valve is connected. "Base" is displayed for the Base. "1" to "127" is displayed for the Remote.
Part No	Displays the product number of the Wireless Base / Remote to which the selected valve is connected.
Unit offset	Displays the start position of the address to which the selected unit is mapped on the I/O map.
Unit No.	Displays the mapped position of the selected valve (relates to position of the unit within manifold). * Refer to "5.3.2 Properties", "Unit address order" for details on mapped position.



5.2.4.2 IO unit (digital) Digital input unit (product number: EX600-DX#D)

Information		
	🪾 IO Detail —	□ ×
	IO Unit Information	sh
	PID : 0EE1401E	on
Input Outp	Unit TAG : EX600-WEN#	resh ected
ADRS	W.ch : Base	
7	Part No : EX600-DX#D	
8	Unit offset : 10	
9	Unit No. : 1	
10	Official off	>>
11		
12	Part No Data(byte) B7 B6 B5 B4 B3 B2 B7	
13	EX600-DX#D 0	0
14		
15		
16		
17		
18 19		
20		
20		
22		
23	Enforce Quit	
24		~
<		>

Digital output unit (product number: EX600-DY#B)

Information	/O monitor Properties						
	🄤 IO Detail				-		
	IO Unit Information						n
		PID : 0EE14	01E				on
Input Outp	J Uni	TAG : EX600	-WEN#			Refresh	ected
ADRS		W.ch : Base					^
0	Pa	rt No : EX600	-DV#R				
1	1	offset : 0					
2							
3	Uni	t No. : 0				>>	
4							
5	Part No	Data(byte)	B7 B6		B3 B2	B1 B0	
6	EX600-DY#B	0	0 0	0 0	0 0 0	0	
7							
8							
9							
10							
11							
12							
13							
14							
15				Enforce	Quit		
16				c.norec	guit		~
< 17							>



Digital input / output unit (product number: EX600-DM#F)

	Poperties	
ſ	IO Detail	
	IO Unit Information	
Input Out	PID : 0B21400A	ed
	Unit TAG : EX600-WEN#	_
ADRS	W.ch : Base	*
8	Part No : EX600-DM#F	
9	Unit offset : 18	
10		E
11	Unit No. : 2	-
12		
13	Part No Data(byte) B7 B6 B5 B4 B3 B2 B1 B0	
14	EX600-DM#F 0 0 0 0 0 0 0 0	
15		
16		
17		
18		
19		
20		
21		
22	Enforce Quit	
-		+

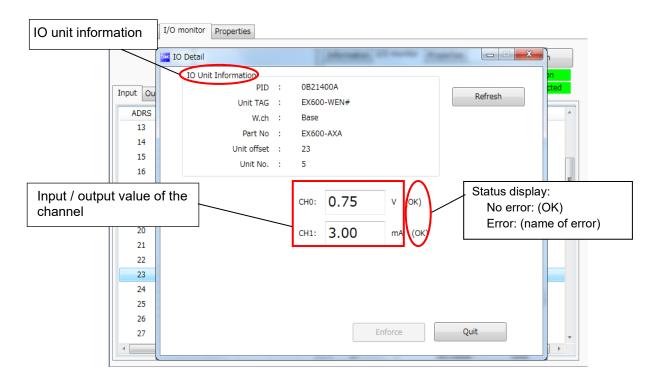
Information I/O monitor Properties

- IO unit information (digital unit)

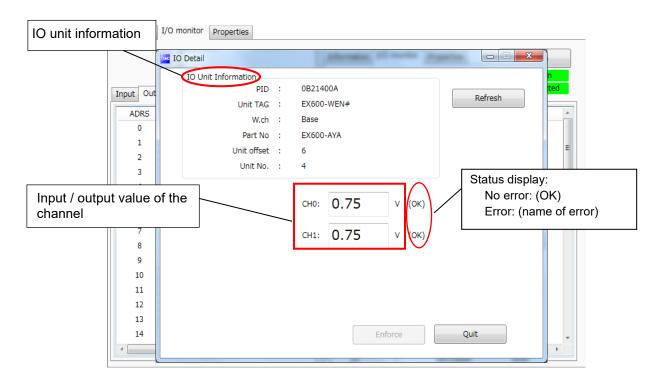
Display	Description
PID	Displays the PID of the Wireless Base / Remote to which the digital unit (input, output, input / output) is connected.
Unit TAG	Displays the tag of the Wireless Base / Remote to which the digital unit (input, output, input / output) is connected.
W.ch	Displays the channel name of the Wireless Base / Remote to which the digital unit (input, output, input / output) is connected. "Base" is displayed for the Base. "1" to "127" is displayed for the Remote.
Part No	Displays the product number of the digital unit (input, output, input / output).
Unit offset	Displays the start position of the address to which the selected unit is mapped on the I/O map.
Unit No.	Displays the mapped position of the digital unit (input, output, input / output). * Refer to "5.3.2 Properties", "Unit address order" for details on mapped position.



5.2.4.3 IO unit (analog) Analog input unit (product number: EX600-AXA)

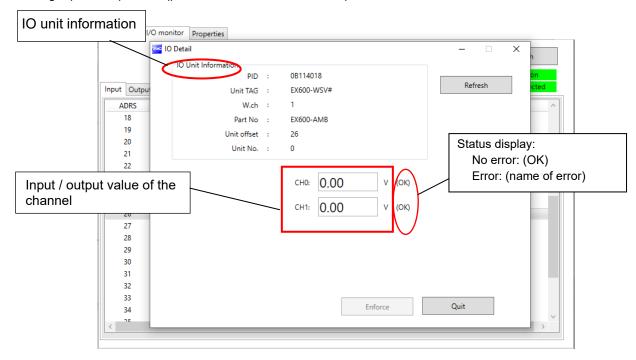


Analog output unit (product number: EX600-AYA)





Analog input / output unit (product number: EX600-AMB)



- IO unit information (analog unit)

Display	Description
PID	Displays the PID of the Wireless Base / Remote to which the analog unit (input, output, input / output) is connected.
Unit TAG	Displays the tag of the Wireless Base / Remote to which the analog unit (input, output, input / output) is connected.
W.ch	Displays the channel name of the Wireless Base / Remote to which the analog unit (input, output, input / output) is connected. "Base" is displayed for the Base. "1" to "127" is displayed for the Remote.
Part No	Displays the product number of the analog unit (input, output, input / output).
Unit offset	Displays the start position of the address to which the selected unit is mapped on the I/O map.
Unit No.	Displays the mapped position of the analog unit (input, output, input / output). * Refer to "5.3.2 Properties", "Unit address order" for details on mapped position.

- Channel status (analog input unit)

Data format	Displayed analog value
Offset binary, sign and magnitude, 2's	+/-□□□ mA (current range)
complement	+/-□□□ V (voltage range)
Scaled	+/-□□□



- Channel status (analog output unit)

	Data format	Displayed analog value	
		+/-□□□ mA (current range)	
12-bit resolution, 11-bit resolution	12-bit resolution, 11-bit resolution	+/-□□□ V (voltage range)	
	Scaled	+/-□□□	

- Channel status (analog input / output unit)

Data format	Displayed analog value
40 bit manufations 44 bit manufations	+/-□□□ mA (current range): Input or output value
12-bit resolution, 11-bit resolution	+/-□□□ V (voltage range): Input or output value
Scaled	+/-□□□: Input or output value



5.3 Properties tab

The settings of a currently connected wireless unit can be changed in the Properties tab. The procedure consists of a control panel and parameters.

Information I/O monitor Propertie	š	
Control panel	Refresh	
Base setting	Ethernet setting Import Reset module	
 Remote registration 	System setting Export R/W detected	
		panel
Base setting		panor
HOLD/CLR (unit):	CLEAR ~ Save all	
Input size:	128 points/16 byte	
Output size:(includes valves)	128 points/16 byte v	
in which include	a valve density of: 32 points/4 byte ~	
Wireless signal:	Active	
Unit address order		Parameters
	0 1 2 2 1 0 ● Mode 1 ○ Mode 2	



5.3.1 Control panel

A control panel for changing the displayed parameters consists of 4 radio buttons and 3 buttons.

	Information I/O monitor Properties	(F
(1)	Control panel	(5
	sase setting themet setting import teset module	(7
(2)	Remote registration System setting Export R/W detected	
(_/	-Base setting	
(3)	HQLB/CLR (unit): CLEAR · Save all	
(0)	Input size: 128 points/16 byte Read factory data	i
(1)	Output size:(includes valves) 128 points/16 byte	
(4)	in which includes a valve density of: 32 points/4 byte	
	Wireless signal: Active ~	
	Unit address order SI SI	
	51 51	
	Mode 1 Mode 2	

- Radio buttons for selecting the parameters to display (Base unit).

No.	Name	Function		
1	Base setting	Switch to the Base unit parameters. Occupied points for the module input / output can be set. Not displayed for a EXW1 series Base unit .		
	OPC UA setting	Switch to OPC UA setting. Perform security settings. Displayed for a Base unit that supports OPC UA (EXW1-BENAC1, EXW1-BPNAC1).		
	Ethernet setting	Switch to Ethernet setting. Perform IP address setting. Displayed for a Base unit that supports EtherNet/IP (EXW1-BENAC1,EX600-WEN#).		
2	EtherCAT setting	Switch to Ethernet parameters. Perform the Custom setting. Displayed for a Base unit that supports EtherCAT (EXW1-BECAC).		
2	CC-Link setting	Switch to CC-Link setting. Set the operating mode, etc. Displayed for a Base unit that supports CC-Link (EXW1-BMJA#).		
	DeviceNet setting	Switch to DeviceNet setting. Perform the MACID, etc. setting. Displayed for a Base unit that supports DeviceNet (EXW1-BDNAC).		
3	Remote registration	Switch to the Remote unit registration display. A wireless Remote or dummy Remote can be registered in the Wireless Base.		
4	System setting Switch to system parameters. The number of occupied points for system input / ou can be set.			

- Radio buttons for selecting the parameters to display (Remote unit).

No.	Name	Function
1	Remote setting	Switch to the Remote unit parameters. Occupied points for the module input / output can be set.
2	Pairing setting	Switch to pairing parameters. Switch to pairing mode.



- Control panel buttons

00110				
No.	Name	Functions		
5 Reset module [Reset module] in order to reflect parameters that were set while power being supplied. 6 Export Button to export the configuration of the wireless unit to a PC (saved a ".smc"). Refer to "3.8 Using a setting file" for details on using this buttor 7 Import Button to import the saved configuration of a wireless unit from a PC (for th		Set parameters are reflected once power is supplied to the wireless unit. Click [Reset module] in order to reflect parameters that were set while power was still being supplied.		
		Button to export the configuration of the wireless unit to a PC (saved as file type ".smc"). Refer to "3.8 Using a setting file" for details on using this button.		
		Button to import the saved configuration of a wireless unit from a PC (file type ".smc"). Refer to "3.8 Using a setting file" for details on using this button.		

* When the [Reset module] button is used, the wireless unit restarts and Ethernet communication or wireless communication is temporarily interrupted.

5.3.2 Properties

(1) Base settingBase unit setting display.

Base setting	O Ethernet setting	Reset module	Refresh
Remote registration	O System setting Export		Power on R/W detected
Base setting			
HOLD/CLR (unit):	CLEAR	Ŷ	Save all
Input size:	128 points/16 byte	v	Read factory data
Output size:(includes valves)	128 points/16 byte	v	Product initialization
in which in	cludes a valve density of: 32 points/4 byte	~	
Wireless signal:	Active	v	
Unit address order	0 1 2 2		



- Base unit parameters

Parameter name	Set value	Initial value	Description
HOLD/CLR (unit)	CLEAR HOLD Software Control	CLEAR	Define all settings that are in output operation status when fieldbus communication is disconnected. CLEAR: Clear the output. HOLD: Fix the output at the current value. Software Control: CLEAR, HOLD or SET for individual points can be set using bit data. * Software Control is selectable only for manifold-type units. Refer to "3.7 Software Control" for setting details.
Input size	0 to 128 points (0 to 16 bytes)	128 points / 16 byte	Set the number of inputs which can be controlled by the Wireless Base unit. Setting range: 0 to 128 points (0 to 16 bytes). Increase or decrease by 16 points.
Output size (includes valves)	0 to 128 points (0 to 16 bytes)	128 points / 16 byte	Set the number of outputs which can be controlled by the Wireless Base unit. Setting range: 0 to 128 points (0 to 16 bytes). Increase or decrease by 16 points. The module output points include the number of points of the valve manifold output.
in which includes a valve density of	0 to 32 points (0 to 4 bytes)	32 points / 4 byte	Set the number of outputs to be allocated to the valve manifold output from the number of points set in the module output size. As the valve manifold output points are included in the module output points, the number of effective points are limited to within the setting range of the module output points. Setting range: 0 to 32 points (0 to 4 bytes). Increase or decrease by 8 points.
Wireless signal	Active Idle	Active	Define the operation status of wireless communication. * Wireless communication is updated in real time. Turning the power supply off and on again or a Reset is not necessary. Active: Wireless communication is available. Idle: Disconnect the wireless communication.
Unit address order	Mode 1 Mode 2	Mode 1	Define the address assignment direction of the EX600 I/O units connected to the Wireless Base unit. The address assignment direction is changed by mode 1/mode 2. Be careful about the I/O mapping. (Refer to the I/O Mapping Order of Wireless Base / Remote Module of the Operation Manual (page 50) for details) Mode 1: Assigned to the right from the end plate. Mode 2: Assigned to the left from the wireless unit.

- Base unit setting buttons

No.	Name	Functions	
1	Save all	Changed settings are stored in the equipment. Perform a Reset to reflect the setting.	
2 Read factory data Button to read the default value of the window being displayed. Reference factory data factory data for details on using this function.		Button to read the default value of the window being displayed. Refer to "3.9 Reading of factory data" for details on using this function.	
3	Product initialization	Initialize (reset) the unit to the default condition. Refer to "3.10 Initialization of the product" for details on using this function.	



(2) Ethernet settingEthernet setting display.Displayed for a Base unit that supports EtherNet/IP.

Control panel Base setting Remote registration	Ethernet setting System setting	Import Reset module Export	Refresh Power on R/W detected
P Ethernet setting MAC address: IP address type: IP address:	Manual 192 . 168	· .0	Save all Read factory data
Auto MDI/MDI-X: Duplex: Communication speed:	Port-1 Auto Full Duplex Auto	Port-2 Auto Full Duplex Auto	

- Wireless Base manifold type (EX600-WEN*)

Parameter name	Set value	Initial value	Note
MAC address	-	-	MAC address of the product is displayed.
IP address type	Manual / DHCP / Remote Control	Manual	Select the IP address setting mode. Select the mode suitable for your network environment. Manual: The IP address is set by inputting it directly. DHCP: The IP address is set automatically via the DHCP server. The IP address obtained will be lost when the power supply is cut. Remote Control *1: The mode to respond to the Enable DHCP and Disable DHCP commands *2 as used with BOOTP / DHCP Server provided by Rockwell Automation.
IP address	IP address	192.168.0.1	Set the IP address (The IP address is valid only when "Manual" mode is selected).
Auto MDI/MDI-X	Auto / MDIX / MDI	Auto	Select either straight cable or crossed cable. Select the setting suitable for your environment.
Duplex	Full Duplex / Half Duplex	Full Duplex	Set to Full or Half Duplex. Select the setting suitable for your environment. When the communication speed is set to [Auto], it is set automatically regardless of the Duplex setting.
Communication speed	Auto / 100 Mbps / 10 Mbps	Auto	Set the communication speed. Select the setting suitable for your environment.

*1 Function supported with firmware ver. 1.1.0 and later. The firmware version is displayed in the Information tab (refer to "5.1 Information tab").

*2 Enable DHCP: Information including the IP address can be obtained from BOOTP / DHCP Server.

If power is supplied again in this state, information including the IP address is obtained again.

Disable DHCP: IP address etc. cannot be obtained from BOOTP / DHCP Server.

Previous settings can be held if power is supplied under this condition.



- The compact Wireless Base (EXW1-BENAC1)

Parameter name	Set value	Initial value	Note
MAC address	-	-	MAC address of the product is displayed.
IP address type	Manual / DHCP / Remote Control	Manual	 Select the IP address setting mode. Select the mode suitable for your network environment. Manual: The IP address is set by inputting it directly. DHCP: The IP address is set automatically via the DHCP server. The IP address obtained will be lost when the power supply is cut. Remote Control *1: The mode to respond to the Enable DHCP and Disable DHCP commands *2 as used with BOOTP / DHCP Server provided by Rockwell Automation.
IP address	0.0.0.1- 255.255.255.255	192.168.0.1	Set the IP address (The IP address is valid only when "Manual" mode is selected).
Subnet Mask	0.0.0.0- 255.255.255.255	255.255.255.0	Set the Subnet Mask (The IP address is valid only when "Manual" mode is selected).
Default Gateway	0.0.0.0- 255.255.255.255	0.0.0.0	Set the Default Gateway (The IP address is valid only when "Manual" mode is selected).
Auto MDI/MDI-X	Auto / MDIX / MDI	Auto	Select either straight cable or crossed cable. Select the setting suitable for your environment.
Duplex	Full Duplex / Half Duplex	Full Duplex	Set to Full or Half Duplex. Select the setting suitable for your environment. When the communication speed is set to [Auto], it is set automatically regardless of the Duplex setting.
Communication speed	Auto / 100 Mbps / 10 Mbps	Auto	Set the communication speed. Select the setting suitable for your environment.

*1 Function supported with firmware ver. 1.1.0 and later. The firmware version is displayed in the Information tab (refer to "5.1 Information tab").

*2 Enable DHCP: Information including the IP address can be obtained from BOOTP / DHCP Server.

If power is supplied again in this state, information including the IP address is obtained again. Disable DHCP: IP address etc. cannot be obtained from BOOTP / DHCP Server.

Previous settings can be held if power is supplied under this condition.



(3) CC-Link setting

CC-Link setting display. Displayed for a Base unit that supports CC-Link (EXW1-BMJA#).

Remote registration	CC-Link Setting System setting	Import Reset module Export	Power on R/W detected
CC-Link Setting			
Operating mode:	2	v	Save all
	Max. Remote units:	15Remote	Read factory data
	CC-Link version:	1.10	
	Extension Cycle(s):	1 times	
	Occupied station(s):	4	
	RX/RY:	128 bits / 128 bits	
	RWr/RWw:	16 words / 16 words	
Speed:	156kbps	v	
Number of slave stations:		~	

- CC-Link parameters

Parameter name	Set value	Initial value	Note
Operating mode	1 to 8	2	CC-Link version, number of occupied stations, etc.
Speed	156 kbps / 625 kbps / 2.5 Mbps / 5 Mbps / 10 Mbps		Set the communication speed.
Number of slave stations	1 to 64 stations	0	Change the setting in accordance with the installation conditions.



(a) Operating mode setting

	. Number of		CC-Link setting	Occupied area		
Operating mode	registerable units	CC-Link Ver.	Extended cyclic	Number of occupied stations	Bit area RX/RY	Word area RWr/RWw
1	15	1.10	x1	2	64/64	8/8
2	15	1.10	x1	4	128/128	16/16
3	15	2.00	x8	2	384/384	64/64
4	15	2.00	x8	4	896/896	128/128
5	31	2.00	x8	2	384/384	64/64
6	31	2.00	x8	4	896/896	128/128
7	63	2.00	x8	4	896/896	128/128
8	127	2.00	x8	4	896/896	128/128

This setting specifies a CC-Link operating mode. Setting range: 1 to 8

* The last register of the bit area (16 bits) cannot be used as it is allocated for the system area.

(b) Speed

Specifies the CC-Link communication speed. Setting range: 156 kbps / 625 kbps / 2.5 Mbps / 5 Mbps / 10 Mbps

(c) Station number setting

Specifies a station number to assign to the compact Wireless Base (Remote device station) on CC-Link. Setting range: 1 to 64

* The settable range varies depending on the selected operating mode (number of occupied stations).

* To avoid a station number conflict, the station number is set to 0 (station number error) by default. Change the station number in accordance with the unit installation conditions.



(4) System setting System setting display.

Information I/O monitor Properti	es		
Control panel			
O Base setting	Ethernet setting	Reset module	Refresh
 Remote registration 	System setting Export		Power on R/W detected
System setting			
I/O mapping:	Manual	v	Save all
System input size	1280 points/160 byte	~	Read factory data
System output size	1280 points/160 byte	v	
Diagnostic allocation:	Advanced	~	
Max. Remote units:	15 Remotes	~	
DA refresh time(sec)	1s	~	



- Compact Wireless Base (EXW1-BMJA#)

Parameter	Set value	Initial value	Note
I/O mapping	Manual	Manual	Specifies an I/O mapping method. * "Manual" is fixed for EXW1-BMJA#.
Diagnostic allocation	Advanced	Advanced	Specifies diagnostic information to map to the Word area. Setting range: Advanced
anocation			Detailed (System diagnosis + Remote connection / diagnosis /
			registration information)
			* "Advanced" is fixed for EXW1-BMJA#.
			* Refer to the "Diagnostic mapping" section in the Operation Manual for
			details.
DA refresh	0.1 / 0.2 / 0.5 / 1	1 s	Set the data update time of the analog output unit connected to the
time(sec) *1	/2/5/10/30/		Wireless Remote.
()	60 s		* The analog input update time is set for every Wireless Remote unit.
Output action	Clear / Hold /	Clear	Sets the output action of the entire wireless system for when the CC-
when upper	Individual		Link communication is disconnected.
communication			CLEAR: Clear the output.
to disconnected.			HOLD: Fix the output at the current value.
			Individual: The set value of each Wireless Remote is valid (not the
			entire system).
			* The [CLEAR] and [HOLD] values of the [HOLD/CLR (unit)] setting
			of EX600-WEN/WPN/WSV specifies output actions for valves and
			I/O units (EX600-DYP# etc.) connected to EX600-WEN/WPN/WSV.
			Note that this setting does not apply to the wireless system wide
			output action (different from EXW1-BMJA#).
Timing of	20 / 40 / 100/	500 msec	Activated only when protocol V.2.0 is used
Wireless	200 / 500 / 1,000		If wireless communication (including retries) does not succeed due
Communication	/ 2,000 / 5,000		to obstacles or for other reasons, it is judged to have failed after a
	msec		set amount of time and disconnected. Afterwards, the Base and the
			Remote are reconnected.
Input Information	Clear / Hold	Hold	Specifies input information for when the wireless communication is
of Wireless			disconnected.
Communication			CLEAR: Clear the input.
			HOLD: Fix the input at the current value.
Wireless signal	Active / Idle	Active	Sets the operation status of wireless communication.
			Active: Wireless communication output is active
			Idle: Wireless communication output is idle
Protocol	V.1.0 / V.2.0	V.1.0	Sets the wireless communication protocol.
			* To pair with an EX600-W-series unit, V.1.0 must be set.
			This also applies when building a wireless system consisting of both
Time - lafe we ation			EXW1 and EX600-W series. Refer to "5.3.2 Properties" for details.
Time Information	-	Unsynchroni	The time information is the time that the product recognizes. It is
		zed	used for a timestamping event and other logs.
			Until "synchronization" is performed, it displays the time elapsed
Supervise			since startup.
Synchronize	-	-	The time information of the PC is sent to the product and is
time			synchronized. If the time information of the PC is required for
1 It is passage ut	o act the date und	l lata tima far a	timestamping event and other logs, perform time synchronization. ach analog input unit connected to the Wireless Remote.

0

- The protocol version is set to V.1.0 by default; to use the 1 Mbps wireless communication speed and the frequency channel selecting function (F.C.S.) in a wireless system consisting solely of EXW1-series devices, change the protocol version to V.2.0 before pairing them.



•	reless Base (EXW	1	N-4-
Parameter	Set value	Initial value	Note
I/O mapping	Manual / Auto	Manual	Specifies an I/O mapping method.
System input	16, 128, 256, 512,	1280 points/	Set the number of inputs which can be controlled by the entire
size	768, 1024, 1280, 2048, 4096 points	160 byte	wireless system.
	2040, 4090 points		* Number can only be set when "Manual" is used for I/O mapping.
<u> </u>	2, 16, 32, 64, 96,	4000	
System output	128, 160,256, 512	1280 points/	Set the number of outputs which can be controlled by the entire
size	bytes	160 byte	wireless system.
Diagnostic	None / Simple /	Advanced	* Number can only be set when "Manual" is used for I/O mapping. Set the diagnostic information allocated to the I/O map. Refer to the
allocation	Advanced	Avancea	"Diagnostic allocation" section in the Operation Manual (page 56) for
anooution	/ lavanooa		details.
			None: No diagnostic data
			Simple: System diagnostics
			Advanced: System diagnostics + Wireless Remote connection /
			diagnostics / registration information
Max. Remote	15 / 31 Remotes	15 Remotes	Set the number of Wireless Remote units which are registered to the
units			Wireless Base unit.
			Wireless channels for the number of the set units are enabled.
Time of	100/ 200 / 500 /	500 msec	Only available in protocol V.2.0.
Wireless	1,000 / 2,000 /		If wireless communication (including retries) does not succeed due
communicatio	5,000 msec		to obstacles or for other reasons, it is judged to have failed after a
n timeout			set amount of time and disconnected. Afterwards, the Base and the
			Remote are reconnected.
Power	High/Middle/Low	High	Only available in protocol V.2.0. It is possible to decrese interference with other wireless products by
Transmission			reducing the output power level.
Level			This setting is made in the base and will be applied to any paired
			Remotes with wireless atdaptor via wireless communication.
			Setting range: High/Middle/Low (Power Transmission : High > Middle
			> Low)
			RSSI
			[dBm] High
			Middle
			Low
			No reception
			Distance [m]
Wireless	Active / Idle	Active	Sets the operation status of wireless communication.
signal			Active: Wireless communication output is active
			Idle: Wireless communication output is idle
Protocol	V.1.0 / V.2.0	V.2.0	Sets the wireless communication protocol.
			* To pair with an EX600-W-series unit, V.1.0 must be set.
			This also applies when building a wireless system consisting of both
			EXW1 and EX600-W series. Refer to "5.3.2 Properties" for details.

Compact Wireless Base (EXW1-BDNAC)



- Compact Wireless Base (EXW1-BDNAC) (continued)

Parameter	Set value	Initial value	Note
Time Information	-	zed	The time information is the time that the product recognizes. It is used for a timestamping event and other logs. Until "synchronization" is performed, it displays the time elapsed since startup.
Synchronize time	-		The time information of the PC is sent to the product and is synchronized. If the time information of the PC is required for timestamping event and other logs, perform time synchronization.

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- The protocol version is set to V.2.0 by default; to use EX600-W series Remote devices, change the protocol version to V.1.0 before pairing them.



- Compact Wireless Base (EXW1-BECAC)

Parameter	Set value	Initial value	Note
I/O mapping	Auto	Auto	Specifies an I/O mapping method.
			* "Auto" is fixed for EXW1-BECAC.
Diagnostic	None / Simple /	Advanced	Set the diagnostic information allocated to the I/O map. Refer to the
allocation	Advanced		"Diagnostic allocation" section in the Operation Manual (page 56) for
			details.
			None: No diagnostic data
			Simple: System diagnostics
			Advanced: System diagnostics + Wireless Remote connection /
			diagnostics / registration information
Max. Remote	15 / 31 / 63	15 Remotes	Set the number of Wireless Remote units which are registered to the
units	Remotes		Wireless Base unit.
			Wireless channels for the number of the set units are enabled.
Time of Wireless	100/ 200 / 500 /	500 msec	Only available in protocol V.2.0.
communication	1,000 / 2,000 /		If wireless communication (including retries) does not succeed due
timeout	5,000 msec		to obstacles or for other reasons, it is judged to have failed after a
	,		set amount of time and disconnected. Afterwards, the Base and the
			Remote are reconnected.
Power	High/Middle/Low	High	Only available in protocol V.2.0.
Transmission	-	-	It is possible to decrese interference with other wireless products by
Level			reducing the output power level.
			This setting is made in the base and will be applied to any paired Remotes with wireless atdaptor via wireless communication.
			Setting range: High/Middle/Low (Power Transmission : High > Middle
			> Low)
			RSSI (dBm)
			High
			Middle
			Low
			No reception
			Distance [m]
Wireless signal	Active / Idle	Active	Sets the operation status of wireless communication.
wineless signal			Active: Wireless communication output is active
Drotocol	V10/V20	1/20	Idle: Wireless communication output is idle
Protocol	V.1.0 / V.2.0	V.2.0	Sets the wireless communication protocol.
			* To pair with an EX600-W-series unit, V.1.0 must be set.
l l			This also applies when building a wireless system consisting of both
			EXW1 and EX600-W series. Refer to "5.3.2 Properties" for details.

• The protocol version is set to V.2.0 by default; to use EX600-W series Remote devices, change the protocol version to V.1.0 before pairing them.



Parameter	Set value	Initial value	Note
I/O mapping	Manual / Auto	Manual	Specifies an I/O mapping method.
System input size	16, 128, 256, 512, 768, 1024, 1280, 2048 to 11264 pointsi in 1024-	2048 points/ 256 byte	Set the number of inputs which can be controlled by the entire wireless system. * Number can only be set when "Manual" is used for I/O mapping.
System output size	point units 2, 16, 32, 64, 96, 128, 160,256 bytes to 1408 bytes in 128- bytes units	2048 points/ 256 byte	Set the number of outputs which can be controlled by the entire wireless system. * Number can only be set when "Manual" is used for I/O mapping.
Diagnostic allocation	None / Simple / Advanced	Advanced	Set the diagnostic information allocated to the I/O map. Refer to the "Diagnostic allocation" section in the Operation Manual (page 56) for details. None: No diagnostic data Simple: System diagnostics Advanced: System diagnostics + Wireless Remote connection / diagnostics / registration information
Max. Remote units	15 / 31 / 63 / 127 Remotes	15 Remotes	Set the number of Wireless Remote units which are registered to the Wireless Base unit. Wireless channels for the number of the set units are enabled.
Time of Wireless communicatio n timeout	100/ 200 / 500 / 1,000 / 2,000 / 5,000 msec	500 msec	Only available in protocol V.2.0. If wireless communication (including retries) does not succeed due to obstacles or for other reasons, it is judged to have failed after a set amount of time and disconnected. Afterwards, the Base and the Remote are reconnected.
Power Transmission Level	High/Middle/Low	High	Only available in protocol V.2.0. It is possible to decrese interference with other wireless products by reducing the output power level. This setting is made in the base and will be applied to any paired Remotes with wireless atdaptor via wireless communication. Setting range: High/Middle/Low (Power Transmission : High > Middle > Low) RSSI [dBm] High Middle Low
Wireless signal	Active / Idle	Active	Distance [m] Sets the operation status of wireless communication. Active: Wireless communication output is active Idle: Wireless communication output is idle
Protocol	V.1.0 / V.2.0	V.2.0	Sets the wireless communication output is idle Sets the wireless communication protocol. * To pair with an EX600-W-series unit, V.1.0 must be set. This also applies when building a wireless system consisting of both EXW1 and EX600-W series. Refer to "5.3.2 Properties" for details.





- Compact Wireless Base (EXW1-BENAC1) (continued)

Parameter	Set value	Initial value	Note
Time Information	-	zed	The time information is the time that the product recognizes. It is used for a timestamping event and other logs. Until "synchronization" is performed, it displays the time elapsed since startup.
Synchronize time	-		The time information of the PC is sent to the product and is synchronized. If the time information of the PC is required for timestamping event and other logs, perform time synchronization.

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- The protocol version is set to V.2.0 by default; to use EX600-W series Remote devices, change the protocol version to V.1.0 before pairing them.



- Compact Wireless Base (EXW1-BPNAC1)

Parameter	Set value	Initial value	Note		
I/O mapping	Auto	Auto	Specifies an I/O mapping method. * " Auto" is fixed for EXW1-BPNAC1.		
Diagnostic allocation	None / Simple / Advanced	Advanced	Set the diagnostic information allocated to the I/O map. Refer to the "Diagnostic allocation" section in the Operation Manual (page 56) for details. None: No diagnostic data Simple: System diagnostics Advanced: System diagnostics + Wireless Remote connection / diagnostics / registration information		
Max. Remote units	15 / 31 / 63 Remotes	15 Remotes	Set the number of Wireless Remote units which are registered to the Wireless Base unit.		
Time of Wireless communication timeout	100/ 200 / 500 / 1,000 / 2,000 / 5,000 msec	500 msec	Wireless channels for the number of the set units are enabled. Only available in protocol V.2.0. If wireless communication (including retries) does not succeed due to obstacles or for other reasons, it is judged to have failed after a set amount of time and disconnected. Afterwards, the Base and the Remote are reconnected.		
Power Transmission Level	High/Middle/Low	High	Only available in protocol V.2.0. It is possible to decrese interference with other wireless products by reducing the output power level. This setting is made in the base and will be applied to any paired Remotes with wireless atdaptor via wireless communication. Setting range: High/Middle/Low (Power Transmission : High > Middle > Low) RSSI [dBm] RSSI [dBm] Middle Low Distance [m]		
Wireless signal	Active / Idle	Active	Sets the operation status of wireless communication. Active: Wireless communication output is active Idle: Wireless communication output is idle		
Protocol	V.1.0 / V.2.0	V.2.0	Sets the wireless communication protocol. * To pair with an EX600-W-series unit, V.1.0 must be set. This also applies when building a wireless system consisting of both EXW1 and EX600-W series. Refer to "5.3.2 Properties" for details.		
Time Information	-	Unsynchroni zed	The time information is the time that the product recognizes. It is used for a timestamping event and other logs. Until "synchronization" is performed, it displays the time elapsed since startup.		
Synchronize time	-	-	The time information of the PC is sent to the product and is synchronized. If the time information of the PC is required for timestamping event and other logs, perform time synchronization.		

The protocol version is set to V.2.0 by default; to use EX600-W series Remote devices, change the protocol version to V.1.0 before pairing them.



- Wireless unit (manifold type) (EX600-WEN# / EX600-WPN# etc.)

Parameter	Set value	Initial value	Note
I/O mapping	Manual / Auto	Manual (EX600- WEN#) Auto (EX600- WPN#, fixed)	Define the I/O mapping of the entire wireless system including the Wireless Remote unit registered to the Wireless Base unit. Auto: All I/O points mapped to the Wireless Base unit and Wireless Remote unit are identified and mapped automatically. (The total number of connected I/O points is the total number of I/O points set by the diagnostic information, Wireless Base and registered Remote Unit.) Manual: Fixed at the number of I/O points set in "System input size" and "System output size". * "Auto" is fixed for EX600-WPN#.
System input size	16, 128 to 1280 points (2 bytes to 160 bytes) in 128-point (16- byte) units	1280 points / 160 byte	Set the number of inputs which can be controlled by the entire wireless system. * Number can only be set when "Manual" is used for I/O mapping. * Cannot be set with EX600-WPN#.
System output size	16, 128 to 1280 points (2 bytes to 160 bytes) in 128-point (16- byte) units	1280 points / 160 byte	Set the number of outputs which can be controlled by the entire wireless system. * Number can only be set when "Manual" is used for I/O mapping. * Cannot be set with EX600-WPN#.
Diagnostic allocation	None / Simple / Advanced	Advanced	Set the diagnostic information allocated to the I/O map. Refer to the "Diagnostic allocation" section in the Operation Manual (page 56) for details. None: No diagnostic data Simple: System diagnostics Advanced: System diagnostics + Wireless Remote connection / diagnostics / registration information
Max. Remote units	0 / 15 / 31 / 63 / 127 Remotes (EX600-WEN#) 0 / 15 / 31 Remotes (EX600-WPN#)	15 Remotes	Set the number of Wireless Remote units which are registered to the Wireless Base unit. Wireless channels for the number of the set units are enabled.
DA refresh time (sec) *1	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 s	1 s	Set the data update time of the analog output unit connected to the Wireless Remote. * The analog input update time is set for every Wireless Remote unit. Refer to "3.3 Remote setting". Input level Output level Update time Update time Initial setting 1 second



Protocol setting

Refer to the table below for wireless communication protocols.

To pair an EXW1-series unit with an EX600-W-series unit, V.1.0 must be set.

This also applies when building a wireless system consisting of both EXW1 and EX600-W series.

- V.1.0: The same wireless communication method as EX600-W is used, and the [frequency channel selecting function (F.C.S.)] are not available. The communication speed is 250 kbps.
- V.2.0: This version can be applied to a wireless system consisting solely of EXW1 series units.
 The [Individual setting of Output while upper communication is not established] and [Frequency channel selecting function (F.C.S.)] are available. The communication speed is 1 Mbps.

See the table of combinations provided below.

Combination*4		Applicable function				
Wireless Base	Wireless Remote	Communication distance	Protocol	Frequency channel selection function (F.C.S.)		
EXW1	EXW1+EXA1	Up to 100 m	V.2.0	Available		
EXW1	EXW1	Up to 100 m	V.1.0 / V.2.0	Available *1		
EXW1	EXW1+EX600	*2	V.1.0	Not available		
EXW1	EX600	Up to 10 m	V.1.0	Not available		
EX600	EXW1	Up to 10 m	V.1.0	Not available		
EX600	EXW1+EX600	Up to 10 m	V.1.0	Not available		
EX600	EX600	Up to 10 m	V.1.0	Not available		

*1 Only available in protocol V.2.0.

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*2 Up to 100 m between an EXW1-series Base and Remote, and up to 10 m between an EXW1-series Base and an EX600-W-series Remote.

*3 The settings and monitor function are restricted when EX600-WEN/WPN and EXW1-R# are used in combination.

*4 For combinations involving EX600-W series, refer to the operation manual for the product in use.

- The protocol can be changed only when no Remote is registered in the EXW1 series Base unit .

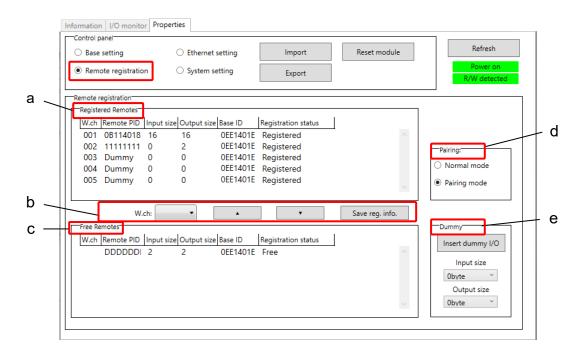
Make changes only after unregistering any registered Remotes. Note that an unregistration pop-up window will appear in the I/O Configurator.



(5) Remote registration

For this wireless system, it is necessary to register the PID for each product to establish communication without interference from another network. The Remote unit registration display consists of "Registered Remotes", "Remote registration buttons", "Free Remotes", "Pairing", and "Dummy" items.

* Registration of Remotes needs to be performed with power supplied. * Refer to "3.5 Pairing" for the procedure to register Remotes.



(5)-a Registered Remotes

Details of registered Remotes.

Registered Remotes								
W.ch	Remote PID	Input size	Output size	Base ID	Registration status			
002	11111111	0	2	0EE1401E	Registered			
004	Dummy	0	0	0EE1401E	Registered			
005	Dummy	0	0	0EE1401E	Registered			
800	DDDDDDI	2	2	0EE1401E	Registered Failed			
010	32165489	2	0	0EE1401E	Registered Wait			

- Registered Remote display

Display	Description					
W.ch	Wireless Base channel used when the Wireless Remote was registered.					
Remove PID Indicates the PID of the Wireless Remote.						
Input size	Wireless Remote input size.					
Output size	Wireless Remote output size.					
Base ID	PID of the registered Wireless Base.					
Registration status	Current registration status. (Registered information is saved ⇒ "Registered", registered information is not saved ⇒ "Registered Wait", registration is not successful ⇒ "Registered Failed") * When the registration is not successful, "Registered Failed" is displayed. Start the registration again.					



(5)-b Remote registration buttons

Remote registration buttons are only enabled when wireless units are in pairing mode.

W.ch:

Save reg. info.

- Remote registration button display

Display	Description
W.ch	Select the channel used to register the Remote to the Wireless Base. (Only channels available for registration will be displayed)
[▲]	Move the Wireless Remote from Free Remotes to Registered Remotes. (Specify the wireless channel before moving)
[▼]	Remove a Wireless Remote from "Registered Remotes". (The Wireless Remote will now be displayed in the "Free Remotes" area)
Save reg. info.	Register the Remotes shown in "Registered Remotes" with the status "Registered Wait" ("Registered" will be displayed when the Remote is successfully registered to the Wireless Base)

(5)-c Free Remotes

Nodes for Remote units in pairing mode and not yet registered to a Base are listed in the Free Remotes area.

Fr	ee Remotes						
٧	I.ch Remote PID	Input size	Output size	Base ID	Registration status	s	
	32165489	2	0		Free		

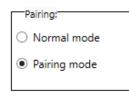
- Free Remote display

Display	Description			
W.ch	No information to display.			
Remote PID	Remote PID Indicates the PID of the Wireless Remote.			
Input size	Wireless Remote input size.			
Output size Wireless Remote output size.				
Base ID	Previously registered Base PID.			
Registration status	Displays the status "Free".			



(5)-d Pairing

The radio buttons used for pairing are only settable in <u>Administrator mode</u>. They can be set even when power is off.



- Pairing radio button display

Item	Description
Normal mode	Change to normal (non-pairing) mode. Indicates that the current status is Normal (pairing disabled) mode.
Pairing mode	Change to pairing mode. Indicates that the current status is pairing mode.

(5)-e Dummy Remote

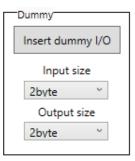
Use a dummy Remote to secure memory space for a Wireless Remote in the I/O map without registering a Remote. A Wireless Remote unit can be added later even after a system has been built without changing the I/O map by registering it to the dummy area.

The Wireless Remote unit mapping order to the I/O map is from the smallest channel to the largest channel with the wireless channels which have been set during Remote unit registration.

At this time, the wireless channel in which no Wireless Remote unit is registered will be ignored.

When adding a new Wireless Remote unit, it may be required to change the I/O map depending on the wireless channel number.

The dummy Remote can be registered only with a Wireless Base unit.



- Dummy Remote button display

Description
Move the dummy Remote to "Registered Remotes".
Set the input size for the dummy Remote (0 to 16 bytes).
Set the output size for the dummy Remote (0 to 16 bytes).

* Refer to "3.6 Dummy Remote" for further details and for how to register dummy Remotes.

 Before registering a dummy Remote, it is necessary to set the number of inputs / outputs. If a Wireless Remote unit with inputs / outputs which are different from the set numbers is registered, the I/O map should be changed.



(5)-f FCS Setting (Frequency Channel Select)

The frequency channel can be selected using this function. This function is only supported by protocol V.2.0. Specify protocol V.2.0 in [System setting].

FCS Setting cannot be used if communication with subordinate Remotes uses a mixture of protocols. Ensure that only Remote units that support protocol V.2.0 are registered to the Base with which FCS Setting is to be used.

* The number of selectable frequency channels varies depending on the country in use. Refer to the operation manual of the Base for details.

* If no channel is selected, communication is established on ch 79 by default.

Follow the steps below to configure the function on the Remote unit registration screen on the Properties tab.

- Set [Pairing] to [Normal mode]. Refer to "3.5 Pairing" for details on pairing.
- (2) Click [FCS Setting].

	O CC-Link Setting	Import	Reset module	Refresh
Remote registration	 System setting 	Export		Power on R/W detected
mote registration				
Registered Remotes	ut size Output size Base I	D Registration status	TAG	
				(1)
				Pairing:
				Normal mode
				Normal mode Pairing mode
W.ch:	×		Save reg. info.	
	*	V	Save reg. info.	O Pairing mode
Free Remotes	ut size Output size Base I		Save reg. info.	Pairing mode (2) FCS Setting
Free Remotes				Pairing mode
Free Remotes				Pairing mode



The Frequency Channel Select Window is displayed.

CH.	1 CH		CH.4	CH.5 CH.	5 CH.7	CH.8 CH	1.9 CH.10	СН.11 С	H.12 CH.13	з ј сн.1
			2403	2404	2405	2406	2407	2408	2409	241
24	11	2412	2413	2414	2415	2416	2417	2418	2419	242
24	121	2422	2423	2424	2425	2426	2427	2428	2429	243
24	31	2432	2433	2434	2435	2436	2437	2438	2439	244
24	41	2442	2443	2444	2445	2446	2447	2448	2449	245
24	51	2452	2453	2454	2455	2456	2457	2458	2459	246
24	61	2462	2463	2464	2465	2466	2467	2468	2469	247
24	71	2472	2473	2474	2475	2476	2477	2478	2479	248
24	81									

No.	Item	Description
(1)	Read button	Retrieves the current channel selection configuration.
(2)	W-LAN Channel	The W-LAN indicators make it possible to select frequency channels corresponding to W-LAN channel at one time.
	indicators	* In the example above, W-LAN Channel: CH.10 is selected.
(3)	W-CH indicators	The W-CH indicators make it possible to select frequencies for each CH. * In the example above, frequencies 2419, 2426-2428, and 2446-2468 [MHz] are unused Channels. Note that frequencies 2446-2468 [MHz] correspond to (1) W-LAN Channel: CH.10 above.
(4)	Clear button	Select 79 frequency channels by default.
(5)	Apply button	Save the W-CH selection configuration.

- Indicator colours

Colour	Description	Note
Green	Active frequency channel (W-CH area) W-LAN channel that does not conflict with Active frequency channels (W-LAN Channel area)	
Yellow	Advertise channel	Cannot be set for inactive frequency channels
Grey	Inactive frequency channel	

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- If advertise channels are included in the CH at the time of selecting a W-LAN Channel, they cannot be selected. To select them, initialize the product or remove all the registered Remotes and then configure F.C.S. before performing pairing.

- To use 5 to 7 frequency channels, neighbouring frequencies need to be separated by 3 MHz.

- To use 8 to 14 frequency channels, neighbouring frequencies need to be separated by 2 MHz.
- To use 15 frequency channels or more, neighbouring frequencies can be selected.



(6) Remote setting

The parameters of a Remote unit can be changed as required.

Information I/O monitor Properties	5			
Control panel				
 Remote setting 		Import	Reset module	Refresh
 Pairing setting 		Export		Power on R/W detected
Remote setting				
HOLD/CLR (unit):	CLEAR		Ŷ	Save all
Input size:	128 points/16 byte		v	Read factory data
Output size:(includes valves)	128 points/16 byte		~	Product initialization
in which includes	a valve density of:	32 points/4 byte	~	
Wireless signal:	Active		v	
AD refresh time(sec)	1s		~	
Unit address order	0 1	SI 2 2	SI 1 0	
	Moc	de 1 C) Mode 2	



- Remote parameters

Compact wireless unit (EXW1-RDXNE4## / EXW1-RDYNE4## / EXW1-RDM#E3## etc.)

Parameter	Set value	Initial value	Note
Input size*	16 points (16 bits)	16 points (16 bits)	Fixed For the EXW1-RD#, the number is fixed at 16 (16 bits). * Although the number of occupied inputs of EXW1-RDM# is fixed at 16 (16 bits), only the lower 8 bits are available.
Output size (includes valves)	16 points (16 bits)	Fixed For the EXW1-RD#, the number is fixed at 16 (16 bits). (16 bits) * Although the number of occupied outputs of EXW1-RDM# is at 16 (16 bits), only the lower 8 bits are available.	
Wireless signal	Active / Idle	Active	If set to "Idle", the wireless communication is disconnected.
Power Supply Voltage Monitor (Control/Input)	Enable / Disable	Enable	If set to "Enable", a drop in the US1 (for control/input) power supply voltage can be detected.
Power Supply Voltage Monitor (Output)	Enable / Disable	Disable	EXW1-RDY# EXW1-RDM# If set to "Enable", a drop in the US2 (for output) power supply voltage can be detected.
Output action when upper communication is disconnected.	Clear / Hold	Clear	Specify an output action for when the fieldbus communication is disconnected. CLEAR: Clear the output. HOLD: Fix the output at the current value. Individual: Each output setting can be specified. CLEAR, HOLD, SET: Output ON
Output action when wireless community is disconnected.	Clear / Hold	Hold	Specify an output action for when the wireless communication is disconnected. CLEAR: Clear all Remote output. HOLD: Fix all the Remote output at the current value.



Parameter	Set value	Initial value	Note	
HOLD/CLR (unit)	CLEAR / HOLD / Software Control	CLEAR	Define all settings that are in the output operation status when fieldbus communication is disconnected. CLEAR: Clear the output. HOLD: Fix the output at the current value. Software Control: CLEAR, HOLD or SET for individual points can be set using bit data. * Software Control is selectable only for manifold type units. Refer to "3.7 Software Control" for setting details.	
Input size	0 to 128 points (0 bytes to 16 bytes) in 16- point units	128 points / 16 byte	Set the number of inputs which can be controlled by the Wireless Remote unit.	
Output size (includes valves)	0 to 128 points (0 bytes to 16 bytes) in 16- point units	128 points / 16 byte	Set the number of outputs which can be controlled by the Wireless Remote unit. The module output points include the number of points of the valve manifold output.	
in which includes a valve density of	0 to 32 points (0 bytes to 4 bytes) in 8-point units	32 points / 4 byte	Set the number of outputs to be allocated to the valve manifold output from the number of points set in the module output size. As the valve manifold output points are included in the module output points, the number of effective points are limited to within the setting range of the module output points.	
Wireless signal	Active / Idle	Active	Define the operation status of wireless communication. Active: Wireless communication is available. Idle: Disconnect the wireless communication.	
AD refresh time (sec)	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 s (Initial value 1 s)	1 s	Set the data update time of the analog input unit connected to the Wireless Remote. The analog input update time is set for every Wireless Remote unit. Input level Output level Update time Intial setting 1 second	
Unit address order	Mode 1 / Mode 2	Mode 1	Initial setting 1 second Define the address assignment direction of the EX600 I/O units connected to the Wireless Base unit. The address assignment direction is changed using mode 1 / mode 2. Be careful about the I/O mapping. (Refer to the I/O Mapping Order of Wireless Base / Remote Module of the Operation Manual (page 50) for details) Mode 1: Assigned to the right from the end plate. Mode 2: Assigned to the left from the wireless unit.	



(7) Pairing setting

Setting for wireless communication between the Wireless Base unit and Wireless Remote unit. It is necessary to set the operating mode to pairing when registering the Wireless Remote to Wireless Base.

formation I/O monitor Properties			
 Remote setting 	Import	Reset module	Refresh
Pairing setting	Export		Power on R/W detected
Pairing setting			
			Pairing:
			Normal mode
			 Pairing mode
		•	

- Radio buttons for selecting the pairing mode.

Item	Description	
Normal mode	Change to normal (non-pairing) mode. Indicates that the current status is Normal (pairing disabled) mode.	
Pairing mode	Switch to pairing mode. Indicates that the current status is pairing mode.	



5.4 Event tab

The Event tab makes it possible to check the event information (errors, etc.) of the Wireless Base.

(1)	BASE (2)	CLEAR E	Refresh Power on R/W detected
EXW1-BMJABE	Unit	Channel	Error Code
Odays 00:00:00		0	76
0days 00:00:00	0	0	76
(4) 0days 00:00:00	(5) 0	(6) 0	(7) 76
() 0days 00:00:00	(0)	(0)	(7) 76
0days 00:00:00	0	0	76
0days 00:00:47	0	0	16
0days 00:00:00	0	0	76
0days 00:00:00	0	0	76
0days 00:00:00	0	0	76
0days 00:00:37	0	0	16
0days 00:00:00	0	0	76
0days 00:00:00	0	0	76
0days 00:00:00	0	0	76

- Event tab display

No.	Display	Description
(1)	Model selection	Select a Wireless Remote registered to the Base.
(2)	Clear Event Data	Clear the event data from the selected unit in "Model selection".
(3)	Event data export	Event data can be exported to text files.
(4)	Time stamp	The time when the event was obtained is displayed. Synchronized time is displayed only in the case of protocol V.2.0. * If time is not synchronized, the time elapsed since the product is turned on is displayed. < EXW1-BMJA#> * Time synchronization needs to be performed in [System setting] on the Properties tab. < EXW1-BECAC> * Time synchronization needs to be performed from EtherCAT Distributed Clocks. < EXW1-BENAC1 / EXW1-BPNAC1> * Time synchronization needs to be performed from OPC UA Local Discovery or [System setting] on the Properties tab.
(5)	Unit	The unit number is displayed.
(6)	Channel	The channel number of the Wireless Remote is displayed.
(7)	Error Code	The error code is displayed.



• Error codes

The table below shows error codes with corresponding details and diagnostics maps.

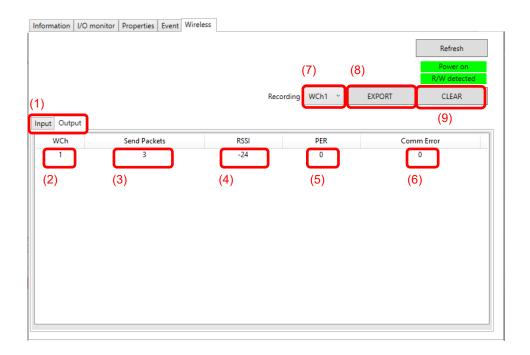
		[Diagnostics map	1
Error code	Description	Bit no.		
Error code Description		ltem	EXW1-BMJ	Except for EXW1-BMJ
1	Detection of a short circuit of US1 or US2		6 or 7	
2	Detection of the range upper limit			2
3	Detection of the range lower limit			3
6	Detection of unconnected load	System		5
7	Detection of the user setting upper limit	diagnostic 1		1
8	Detection of the user setting lower limit			0
9	Detection of the upper limit of the ON/OFF cycles			4
16	Detection of US1 power supply voltage drop		9	1
17	Detection of US2 power supply voltage drop		8	0
19	Connection failure between units (during operation)	System	11	3
20	Connection failure between units (when power is supplied) Detection of system error (when		12	4
22			6	
23	Detection of hardware error (during operation)		15	7
64	Number of input / output points 0		0	
67	Wireless adaptor internal connection error	System 3 diagnostic 3		3
70	Detection of system error		6	
71	Detection of hardware error			7
72	Number of system input / output points setting error		8	0
73	Number of registered Remotes setting error (Outside of the wireless channel setting range)		1	
76	Network setting error		12	-
78	Wireless registration data corrupted	14 6		6
79	Detection of wireless hardware error		15	7
80	IO-Link Device Error			
81	IO-Link Device Warning			
82	IO-Link Master/Port Error		Not eligible	
83	IO-Link Master/Port Warning			
84	Configuration Assembly error			

* Refer to the "Diagnostics map details" section in the Operation Manual for the product.



5.5 Wireless tab

The Wireless tab displays the wireless log data.



- Wireless tab display

No.	Display	Description	
(1)	Input / Output tabs	Received data for the Wireless Base is displayed on the Input tab, and sent data is displayed on the Output tab.	
(2)	WCh	The wireless channel is displayed.	
(3)	Send Packets / Received Packets	The number of sent / received packets is displayed.	
(4)	RSSI (Received Signal Strength Indicator)	The radio wave receiving strength is displayed.	
(5)	PER (Packets Error Rate)	The packet error rate is displayed.	
(6)	Comm Error (Communication Error)	The number of communication disconnections is displayed.	
(7)	Selection of wireless channel	Select the wireless channel from which to obtain wireless log data.	
(8)	Export of wireless log data	The wireless log data from the selected wireless channel is exported. Wireless log data is divided into four csv files.	
(9)	Clear wireless log	Clear all wireless log data.	

• Wireless log data files

Wireless log data is generated and stored in the following four csv files and a pdf file.

🖾 AllInfo	2024/07/09 11:18	Microsoft Excel
🔊 RcvRSSI	2024/07/09 11:18	Microsoft Excel
🔊 Retries	2024/07/09 11:18	Microsoft Excel
🖾 SndRSSI	2024/07/09 11:18	Microsoft Excel
🛓 Summary	2024/07/09 11:18	Adobe Acroba



5.6 Parameter tab

Parameter tab consists of 2 areas, "System configuration" and "Parameter". The parameters of unit can be changed as required.

	TTILCIC00	_
		Refresh Power on R/W detected
System configuration	Parameter (3) Setting Diagnostics (4)	(8) Read (5) (6)
001	Items	Status Value
IO-Link IO-Link SIO (Unit0)	Pd Byte Swap	Direc 🗸 🗠
IO-Link PQI (Unit2)	L+ Power On	Power ON 🗸 🗸
IO-Link P1 (Unit3) IO-Link P2 (Unit4)	Port Input IO-Link Size	16byte 🗸 🗸
(2)	Port Output IO-Link Size	16byte 🗸 🗸
	Port Mode	IOL AutoStar
	Validation & Backup	No Device check 🗸 🗸
	Port Cycle Time	
	Vendor ID	
	Device ID	
	IO-Link State for Fieldbus Fault	Clear(Data Invalid
	IO-Link State for Fieldbus Idle	Clear(Data Invalid
~		(7) Save

- Wireless tab display

No.	Display	Description	
(1)	Part No.	Click to display remote unit parameters in the parameter	
(2)	Unit No.	area. Click to display the parameters of the selected IO unit in the parameter frame.	
(3)	Setting / Diagnostics Tab	Selects the displayed tab, "Setting parameter" or "Diagnostics parameter".	
(4)	Item	The parameter name is displayed.	
(5)	Status	Displye the current status of the parameter.	
(6)	Value	Enter the parameters to change.	
(7)	Save	Saves the entered parameters in "Value" to the product. The setting is available only in administrator mode. *Only settable in Administrator mode.	
(8)	Read	Reload the parameters of the tabs displayed.	
(9)	Clear wireless log	Clear all wireless log data.	



6. Wireless system parameter list

unit	Product Number	Description
	EXW1-BMJA*	CC-Link
	EXW1-BDNAC	DeviceNet
	EXW1-BECAC	EtherCAT
Wireless Base	EXW1-BENAC1	EtherNet/IP
	EXW1-BPNAC1	PROFINET
	EX600-WEN*	EtherNet/IP
	EX600-WPN*	PROFINET
	EXW1-RDXNE4**	Digital input
	EXW1-RDYNE4**	Digital output
	EXW1-RDM*E3**	Digital input / output
	EXW1-RLAPA8C	IO-Link Master ClassA
	EXW1-RLBPA7C	IO-Link Master ClassB
	EXA1-*0-SA	Air Management System
Wireless Remote	EX600-WSV*	Valve manifold output
	EX600-DX**	Digital input
	EX600-DY**	Digital output
	EX600-DM**	Digital input / output
	EX600-AX**	Analog input
	EX600-AYA	Analog output
	EX600-AMB	Analog input / output



- Wireless Base unit (EX600-WEN#) setting parameter	S
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Classificat ion	Parameter name		JU-WEN#) setting parame	Initial value	Setting when power is off	Note
	a)	HOLD/CLR (unit)	CLEAR / HOLD / Software Control	CLEAR	Available	Setting the output operation when the fieldbus communication is disconnected.
	b)	Input size	0 to 128 points (0 to 16 bytes) Increase and decrease by 16 points (2 bytes).	128 points / 16 byte	Available	
	c)	Output size (includes valves)	0 to 128 points (0 to 16 bytes) Increase and decrease by 16 points (2 bytes).	128 points / 16 byte	Available	
Base setting	d)	in which includes a valve density of	0 to 32 points (0 to 4 bytes) Increase and decrease by 8 points (1 byte).	32 points / 4 byte	Available	The valve manifold output points are included in the module output points. The number of effective points are limited to within the setting range of the module output points.
	e)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
1	f)	Unit address order	Mode 1 / Mode 2	Mode 1	Available	Mode 1: Allocation to the right from the end plate. Mode 2: Allocation to the left from the wireless unit.
	a)	IP address type	Manual / DHCP / Remote Control	Manual	Available	The IP address can be input manually only when "Manual" mode is selected.
Ethernet setting	b)	Auto MDI/MDI-X	Auto / MDI / MDI-X	Auto	Available	
0	c)	Duplex	Full Duplex / Half Duplex	Full Duplex	Available	
	d)	Speed	Auto / 100 Mbps / 10 Mbps	Auto	Available	
	a)	I/O mapping	Manual / Auto	Manual	Available	When the total size (byte) of the I/O mapping is an odd number, 1 byte will be added automatically so that an even number will be allocated.
	b)	System input size	16, 128 to 1280 points (2, 16 to 160 bytes) Increase and decrease by 128 points.	1280 points / 160 byte	Available	This is not settable when the I/O mapping is set to "Auto".
System setting o	c)	System output size	16, 128 to 1280 points (2, 16 to 160 bytes) Increase and decrease by 128 points.	1280 points / 160 byte	Available	This is not settable when the I/O mapping is set to "Auto".
	d)	Diagnostic allocation	None / Simple / Advanced	Advanced	Available	Diagnostic information is allocated to the head of the input data of the I/O map.
	e)	Max. Remote units	0 / 15 / 31 / 63 / 127 Remotes	15 Remotes	Available	Wireless channels for the number of the set units are enabled.
	f)	DA refresh time (sec)	0.1/0.2/0.5/1/2/5/10/ 30/60s	1 s	Available	Set the sampling frequency of the analog output equipment.



Classificati on	Parameter name		Set value	Initial value	Setting when power is off	Note
Remote	a)	Pairing	Normal / pairing modes	Normal mode	Available	Normal mode: Wireless Remote cannot be registered. (Communication with the registered Remote will be established). Pairing mode: Wireless Remote can be registered.
	b)	Remote registration	Allocation and registration of the Wireless Remote unit to the wireless channel.	Remote not registered	Not available	
	c)	Dummy Remote	Addition of dummy Remote to the wireless channel	Dummy Remote unset	Not available	Refer to dummy Remote registration for setting details .



Classification	Pa	rameter name	Set value	Initial value	Setting when power is off	Note
	a)	HOLD/CLR (unit)	CLEAR / HOLD / Software Control	CLEAR	Available	Setting the output operation when the fieldbus communication is disconnected.
	b)	Input size	0 to 128 points (0 to 16 bytes) Increase and decrease by 16 points (2 bytes).	128 points / 16 byte	Available	
	c)	Output size (includes valves)	0 to 128 points (0 to 16 bytes) Increase and decrease by 16 points (2 bytes).	128 points / 16 byte	Available	
Base setting	d)	in which includes a valve density of	0 to 32 points (0 to 4 bytes) Increase and decrease by 8 points (1 byte).	32 points / 4 byte	Available	The valve manifold output points are included in the module output points. The number of effective points are limited to within the setting range of the module output points.
	e)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	f)	Unit address order	Mode 1 / Mode 2	Mode 1	Available	Mode 1: Allocation to the right from the end plate. Mode 2: Allocation to the left from the wireless unit.
	a)	I/O mapping	Auto	Auto	Available	For PROFINET Wireless Base I/O, only automatic mapping is available.
	b)	System input size	-	-	-	This is not settable when the I/O mapping is set to "Auto".
. .	c)	System output size	-	-	-	This is not settable when the I/O mapping is set to "Auto".
System setting	d)	Diagnostic allocation	None / Simple / Advanced	Advanced	Available	Diagnostic information is allocated to the head of the input data of the I/O map.
	e)	Max. Remote units	0 / 15 / 31 Remotes	15 Remotes	Available	Wireless channels for the number of the set units are enabled.
	f)	DA refresh time (sec)	0.1/0.2/0.5/1/2/5/10/ 30/60s	1 s	Available	Set the sampling frequency of the analog output equipment.
Remote registration	a)	Pairing	Normal / pairing modes	Normal mode	Available	Normal mode: Wireless Remote cannot be registered. (Communication with the registered Remote will be established). Pairing mode: Wireless Remote can be registered.
-	b)	Remote registration	Allocation and registration of the Wireless Remote unit to the wireless channel.	Remote not registered	Not available	
	c)	Dummy Remote	Addition of dummy Remote to the wireless channel	Dummy Remote unset	Not available	Refer to dummy Remote registration for setting details .

- Wireless Base unit (EX600-WPN#) setting parameters



Classification	Parameter name		(EXVV1-BINJA#) Setting para	Initial value	Setting when power is off	Note
	a)	Operating mode	1 to 8	2	Available	
CC-Link setting	b)	Speed	156 kbps / 625 kbps / 2.5 Mbps / 5 Mbps / 10 Mbps	156 kbps	Available	
	c)	Number of slave stations	1 to 64 stations	0	Available	
	a)	I/O mapping	Manual	Manual	Available	Fixed at "Manual".
	b)	Diagnostic allocation	Advanced	Advanced	Available	Fixed at "Advanced".
	c)	DA refresh time (sec)	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 s	1 s	Available	
	d)	Output action when upper communication is disconnected.	Clear / Hold / Individual	Clear	Available	
System setting	e)	Timing of Wireless Communication	20 / 40 / 100/ 200 / 500 / 1,000 / 2,000 / 5,000 msec	500 msec	Available	
	f)	Input Information of Wireless Communication	Clear / Hold	Hold	Available	
	g)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	h)	Protocol	V.1.0 / V.2.0	V.1.0	Available	
	i)	Time Information	-	-	-	
	j)	Synchronization time	-	-	-	
	a)	Pairing	Normal / pairing modes	Normal mode	Available	
Remote registration	b)	Remote registration	Allocation and registration of the Wireless Remote unit to the wireless channel.	Remote not registered	Not available	
	c)	Dummy Remote	Addition of dummy Remote to the wireless channel	Dummy Remote not set	Not available	Refer to "3.6 Dummy Remote" for details.

- Compact Wireless Base unit (EXW1-BMJA#) setting parameters



Classification	Parameter name		Set value	Initial value	Setting when power is off	Note
EtherCAT Setting	a)	Custom setting	Enable / Disable	Disable	Not available	
	a)	I/O mapping	Auto	Auto	Available	Fixed at "Auto".
	b)	Diagnostic allocation	None / Simple / Advanced	Advanced	Available	Diagnostic information is allocated to the head of the input data of the I/O map.
	c)	Max. Remote units	15 / 31 / 63 Remotes	15 Remotes	Available	Wireless channels for the number of the set units are enabled.
System setting	d)	Time of Wireless communication timeout	100/200/500/1,000/2,000/5,000 msec	500 msec	Available	
	e)	Power Transmission Level	High / Middle / Low	High	Available	
	f)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	g)	Protocol	V.1.0 / V.2.0	V.2.0	Available	
	a)	Pairing	Normal / pairing modes	Normal mode	Available	
Remote registration	b)	Remote registration	Allocation and registration of the Wireless Remote unit to the wireless channel.	Remote not registered	Not available	
	c)	Dummy Remote	Addition of dummy Remote to the wireless channel	Dummy Remote unset	Not available	Refer to dummy Remote registration for setting details .

- Compact Wireless Base unit (EXW1-BECAC) setting parameters



Classification		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	I/O mapping	Manual / Auto	Manual	Available	When the total size (byte) of the I/O mapping is an odd number, 1 byte will be added automatically so that an even number will be allocated.
	b)	System input size	16, 128, 256, 512,768, 1024, 1280,2048 to 11264 pointsi in 1024-point units	2048 points/ 256 byte	Available	This is not settable when the I/O mapping is set to "Auto".
	c)	System output size	2, 16, 32, 64, 96, 128, 160,256 bytes to 1408 bytes in 128- bytes units	2048 points/ 256 byte	Available	This is not settable when the I/O mapping is set to "Auto".
	d)	Diagnostic allocation	None / Simple / Advanced	Advanced	Available	Diagnostic information is allocated to the head of the input data of the I/O map.
System setting	e)	Max. Remote units	15 / 31 / 63 / 127 Remotes	15 Remotes	Available	Wireless channels for the number of the set units are enabled.
	f)	Time of Wireless communication timeout	100/200/500/1,000/2,000/5,000 msec	500 msec	Available	
	g)	Power Transmission Level	High / Middle / Low	High	Available	
	h)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	i)	Protocol	V.1.0 / V.2.0	V.2.0	Available	
	j)	Time Information	-	-	-	
	k)	Synchronization time	-	-	-	
	a)	IP address type	Manual / DHCP / Remote Control	Manual	Available	The parameter can be input manually only when "Manual"
	b)	IP address	0.0.0.1-255.255.255.255	192.168.0.1	Available	mode is selected.
Ethernet	c)	Subnet Mask	0.0.0.0-255.255.255.255	255.255.255.0	Available	
setting	d)	Default Gateway	0.0.0.0-255.255.255.255	0.0.0.0	Available	
	e)	Auto MDI/MDI-X	Auto / MDI / MDI-X	Auto	Available	
	f)	Duplex	Full Duplex / Half Duplex	Full Duplex	Available	
	g)	Speed	Auto / 100 Mbps / 10 Mbps	Auto	Available	
Remote registration	a) b)	Pairing Remote registration	Normal / pairing modes Allocation and registration of the Wireless Remote unit to the wireless channel.	Normal mode Remote not registered	Available Not available	
	c)	Dummy Remote	Addition of dummy Remote to the wireless channel	Dummy Remote unset	Not available	Refer to dummy Remote registration for setting details .

- Compact Wireless Base unit (EXW1-BENAC1) setting parameters



Compact W	irel	ess Base	unit (EXW1-BE	NAC1) setting parameters	(continured)		
Classification		Parameter name		Set value	Initial value	Setting when power is off	Note
	a)	Security N	lode	Sign & Encrypt / Sign / None	Sign & Encrypt	Available	
			Basic256Sha256	Enable	Enable		
OPC UA	b)	Security Policy	Aes128_Sha256_ RsaOaep	Enable	Enable	Available	This is not settable when the Security Mode is set to "None".
setting			Basic256	Enable/Disable	Disable		
			Basic128Rsa15	Enable/Disable	Disable		
	c)	Anonymous Login		Enable/Disable	Disable	Available	
	d)	OPCUA W	rite Enable	Enable/Disable	Disable	Available	
	a)	Brown-out	Detection for US1	Enable / Disable	Enable	Not	
	a)				Enable	available	
Parameter Tab Base	b)	Output Sta	ate Fieldbus	Clear / Hold / Individual	Clear	Not	
	D)	FaultIdle			Clear	available	
Setting	c)	Input State	e for RF Timeout	Clear / Hold	Hold	Not	
	0))			TIOIU	available	

- Compact Wireless Base unit (EXW1-BENAC1) setting parameters (continured)



Compact W		ESS Dase		NAC1) setting parameters			
Classification		Parameter name		Set value	Initial value	Setting when power is off	Note
	a)	I/O mappir	ng	Auto	Auto	Available	Fixed at "Auto".
	d)	I) Diagnostic allocation		None / Simple / Advanced	Advanced	Available	Diagnostic information is allocated to the head of the input data of the I/O map.
	e)	Max. Rem	ote units	15 / 31 / 63 Remotes	15 Remotes	Available	Wireless channels for the number of the set units are enabled.
System setting	f)	Time of Wi	ireless ation timeout	100/200/500/1,000/2,000/5,000 msec	500 msec	Available	
0	g)	Power Tra	nsmission Level	High / Middle / Low	High	Available	
		Wireless s		Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	i)	Protocol		V.1.0 / V.2.0	V.2.0	Available	
	j)	Time Information		-	-	-	
	k)	Synchronization time		-	-	-	
	a)	Pairing		Normal / pairing modes	Normal mode	Available	
Remote	b)	Remote registration		Allocation and registration of the Wireless Remote unit to the wireless channel.	Remote not registered	Not available	
registration	c)	Dummy Remote		Addition of dummy Remote to the wireless channel	Dummy Remote unset	Not available	Refer to dummy Remote registration for setting details .
	a)	Security M	lode	Sign & Encrypt / Sign / None	Sign & Encrypt	Available	
			Basic256Sha256	Enable	Enable		
OPC UA	b)	Security	Aes128_Sha256_ RsaOaep	Enable	Enable	Available	This is not settable when the Security
setting		Policy	Basic256	Enable/Disable	Disable		Mode is set to "None".
			Basic128Rsa15	Enable/Disable	Disable		
	c)	Anonymou	ıs Login	Enable/Disable	Disable	Available	
	d)	OPCUA W	rite Enable	Enable/Disable	Disable	Available	
	a)	Brown-out	Detection for US1	Enable / Disable	Enable	Not available	
Parameter Tab Base	b)	Output Sta FaultIdle	te Fieldbus	Clear / Hold / Individual	Clear	Not available	
Setting	c)	Input State	e for RF Timeout	Clear / Hold	Hold	Not available	

- Compact Wireless Base unit (EXW1-BPNAC1) setting parameters



Classification	Parameter name		Set value	Initial value	Setting when power is off	Note
	a)	I/O mapping	Manual / Auto	Manual	Available	When the total size (byte) of the I/O mapping is an odd number, 1 byte will be added automatically so that an even number will be allocated.
	b)	System input size	16, 128, 256, 512,768, 1024, 1280,2048,3088,4096 points	2048 points/ 256 byte	Available	This is not settable when the I/O mapping is set to "Auto".
	c)	System output size	2, 16, 32, 64, 96, 128, 160, 256,386,512bytes	2048 points/ 256 byte	Available	This is not settable when the I/O mapping is set to "Auto".
	d)	Diagnostic allocation	None / Simple / Advanced	Advanced	Available	Diagnostic information is allocated to the head of the input data of the I/O map.
System setting	e)	Max. Remote units	15 / 31 Remotes	15 Remotes	Available	Wireless channels for the number of the set units are enabled.
3	f)	Time of Wireless communication timeout	100/200/500/1,000/2,000/5,000 msec	500 msec	Available	
	g)	Power Transmission Level	High / Middle / Low	High	Available	
	h)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	i)	Protocol	V.1.0 / V.2.0	V.2.0	Available	
	j)	Time Information	-	-	-	
	k)	Synchronization time	-	-	-	
	a)	MAC ID	0 - 63, PGM	63	Available	
DeviceNet setting	b)	Band Rate	125 / 250 / 500 kbps / Auto / PGM	500 kbps	Available	
	c)	QuickConnect	Enable / Disable	Disable	Available	
	a)	Pairing	Normal / pairing modes	Normal mode	Available	
Remote registration	b)	Remote registration	Allocation and registration of the Wireless Remote unit to the wireless channel.	Remote not registered	Not available	
	c)	Dummy Remote	Addition of dummy Remote to the wireless channel	Dummy Remote unset	Not available	Refer to dummy Remote registration for setting details .
	a)	Brown-out Detection for US1	Enable / Disable	Enable	Not available	
Parameter Tab Base Setting	b)	Output State Fieldbus FaultIdle	Clear / Hold / Individual	Clear	Not available	
	c)	Input State for RF Timeout	Clear / Hold	Hold	Not available	

- Compact Wireless Base unit (EXW1-BDNAC) setting parameters



Classificat ion		arameter name	Set value	Initial value	Setting when power is off	Note
	a)	Input size	16 points / 2 byte	16 points / 2 byte	Fixed	
	b)	Output size	0 points / 0 byte	0 points / 0 byte	Fixed	
Remote	c)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
setting	d)	Power Supply Voltage Monitor (Control / Input)	Enable / Disable	Enable	Available	
Pairing setting	a)	Pairing	Normal/pairing modes	Normal mode	Available	Normal mode: Wireless Remote cannot be registered. (Communication with the registered Remote will be established). Pairing mode: Wireless Remote can be registered.
Parameter Tab Remote	a)	Brown-out Detection for US1	Enable/Disable	Enable	Not available	
	a)	Short Circuit Detection(Po wer)	Enable/Disable	Enable	Not available	
	b)	Inrush Current Filter	Enable/Disable	Enable	Not available	
	c)	Input Filtering Time	0.1/1.0/10/20ms	1.0ms	Not available	
	d)	Input Hold Time	1.0/15/100/200ms	15 ms	Not available	
Parameter Tab DITIGAL INPUT	e)	Ch 7-0: ON/OFF Counter Limit Detection	0x00-0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	f)	Ch 15-8: ON/OFF Counter Limit Detection	0x00-0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 8 : Bit7: Channel 15
	g)	Ch# Counter Limit Value (1k-65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Compact Wireless Remote unit (EXW1-RDXNE4##) setting parameters



Classification	ation Parameter name		Display value	Note
	a)	Ch #:ON/OFF Counter Value	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
		value	Clr (Clear)	Clears the Input ON/OFF counter to 0.
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
Parameter Tab DITIGAL	c)	Ch 15-8:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
INPUT	d)	Ch 7-0:Short Circuit Detection(Input)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	e)	Ch 15-8: Short Circuit Detection(Input)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.

- Compact Wireless Remote unit (EXW1-RDXNE4##) diagnostic parameters



Classificat ion	t Parameter name		Set value	Initial value	Setting when power is off	Note
	a)	Input size	0 points / 0 byte	0 points / 0 byte	Fixed	
	b)	Output size	16 points / 2 byte	16 points / 2 byte	Fixed	
	c)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	d)	Power Supply Voltage Monitor (Control / Input)	Enable / Disable	Enable	Available	
Remote setting	e)	Power Supply Voltage Monitor (Output)	Enable / Disable	Disable	Available	
	f)	Output action when upper communicatio n is disconnected.	Clear / Hold	Clear	Available	Specify an output action for when the fieldbus communication is disconnected.
	g)	Output action when wireless community is disconnected.	Clear / Hold	Clear	Available	Specify an output action for when the wireless communication is disconnected.
Pairing setting	a)	Pairing	Normal/pairing modes	Normal mode	Available	Normal mode: Wireless Remote cannot be registered. (Communication with the registered Remote will be established). Pairing mode: Wireless Remote can be registered.
	a)	Brown-out Detection for US1	Enable/Disable	Enable	Not available	Generated error when power supply voltage (US1) goes under approx. 19 V.
	b)	Brown-out Detection for US2	Enable/Disable	Disable	Not available	Generated error when power supply voltage (US2) goes under approx. 19 V.
Parameter Tab Remote	c)	Output State Fieldbus FaultIdle	Clear/Hold /Individual	Clear	Not available	Only settable in protocol V.2.0. In the case of protocol V.1.0, the value on "Remote setting > Output action when upper communication is disconnected" is avalabe .
	d)	Output State for RF Timeout	Clear/Hold /Individual	Hold	Not available	Only settable in protocol V.2.0. In the case of protocol V.1.0, the value on "Remote setting > Output action when wireless community is disconnected" is avalabe.

- Compact Wireless Remote unit (EXW1-RDYNE4##) setting parameters



Classificat ion		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Short Circuit Detection(Output)	Enable/Disable	Enable	Not available	
	b)	Restart After ShortCircuit	Auto/Manual	Manual	Not available	
	c)	Ch 7-0: ON/OFF Counter Limit Detection	0x00-0xFF	0×00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	d)	Ch 15-8: ON/OFF Counter Limit Detection	0x00-0xFF	0×00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 8 : Bit7:Channel 15
	e)	Ch 7-0: Open Circuit Detection	0x00-0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0 : Channel 0 : Bit7 : Channel 7
Parameter Tab DITIGAL	f)	Ch 15-8: Open Circuit Detection	0x00-0xFF	0×00	Not available	1: Generates an error. 0; Does not generate an error. Bit0 : Channel 8 : Bit7 : Channel 15
OUTPUT	g)	Ch 7-0: Hold State for Fieldbus Fault	0x00-0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	h)	Ch 15-8: Hold State for Fieldbus Fault	0x00-0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 8 : Bit7:Channel 15
	i)	Ch 7-0: Output State for Fieldbus Fault	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	j)	Ch 15-8: Output State for Fieldbus Fault	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0: Channel 8 : Bit7: Channel 15

- Compact Wireless Remote unit (EXW1-RDYNE4##) setting parameters (continured)



Classificat		Parameter name	Set value	Initial value	Setting when	Note
ion					power is off	
	k)	Ch 7-0: Hold State for Fieldbus Idel	0x00-0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	1)	Ch 15-8: Hold State for Fieldbus Idel	0x00-0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 8 : Bit7:Channel 15
	m)	Ch 7-0: Output State for Fieldbus Idel	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	n)	Ch 15-8: Output State for Fieldbus Idel	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 8 : Bit7:Channel 15
Parameter Tab OUTPUT	o)	Ch 7-0: Hold State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	p)	Ch 15-8: Hold State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 8 : Bit7: Channel 15
	q)	Ch 7-0: Output State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	r)	Ch 15-8: Output State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 8 : Bit7:Channel 15
	s)	Ch# Counter Limit Value (1k-65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Compact Wireless Remote unit (EXW1-RDYNE4##) setting parameters (continured)



Classification		Parameter name	Display value	Note
	a)	Ch #:ON/OFF Counter Value	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
		Value	Clr (Clear)	Clears the Input ON/OFF counter to 0.
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	c)	Ch 15-8:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
Parameter Tab DITIGAL	d)	Ch 7-0:Open Circuit Detection	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
OUTPUT	e)	Ch 15-8:Open Circuit Detection	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
	f)	Ch 7-0:Short Circuit Detection(Output)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	g)	Ch 15-8: Short Circuit Detection(Output)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.

- Compact Wireless Remote unit (EXW1-RDYNE4##) diagnostic parameters



Classificati		Parameter name	Set value	Initial value	Setting when	Note
on	2)	Input sizo	16 points / 2 byto	16 points / 2 byte	power is off Fixed	
	a) b)	Input size Output size	16 points / 2 byte 16 points / 2 byte	16 points / 2 byte	Fixed	
	c)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	d)	Power Supply Voltage Monitor (Control / Input)	Enable / Disable	Enable	Available	
Remote setting	e)	Power Supply Voltage Monitor (Output)	Enable / Disable	Disable	Available	
	f)	Output action when upper communication is disconnected.	Clear / Hold	Clear	Available	Specify an output action for when the fieldbus communication is disconnected.
	g)	Output action when wireless community is disconnected.	Clear / Hold	Hold	Available	Specify an output action for when the wireless communication is disconnected.
Pairing setting	a)	Pairing	Normal/pairing modes	Normal mode	Available	Normal mode: Wireless Remote cannot be registered. (Communication with the registered Remote will be established). Pairing mode: Wireless Remote can be registered.
	a)	Brown-out Detection for US1	Enable/Disable	Enable	Not available	Generated error when power supply voltage (US1) goes under approx. 19 V.
	b)	Brown-out Detection for US2	Enable/Disable	Disable	Not available	Generated error when power supply voltage (US2) goes under approx. 19 V.
Parameter Tab Remote	c)	Output State Fieldbus FaultIdle	Clear/Hold /Individual	Clear	Not available	Only settable in protocol V.2.0. In the case of protocol V.1.0, the value on "Remote setting > Output action when upper communication is disconnected" is avalabe .
	d)	Output State for RF Timeout	Clear/Hold /Individual	Hold	Not available	Only settable in protocol V.2.0. In the case of protocol V.1.0, the value on "Remote setting > Output action when wireless community is disconnected" is avalabe.
	a)	Short Circuit Detection(Power)	Enable/Disable	Enable	Not available	
	b)	Inrush Current Filter	Enable/Disable	Enable	Not available	
Doromotor	c)	Input Filtering Time	0.1/1.0/10/20ms	1.0ms	Not available	
Parameter Tab	d)	Input Hold Time	1.0/15/100/200ms	15 ms	Not available	
DITIGAL INPUT	e)	Ch 7-0: ON/OFF Counter Limit Detection	0x00-0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	f)	Ch# Counter Limit Value (1k-65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Compact Wireless Remote unit (EXW1-RDM#E3##) setting parameters



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Short Circuit Detection(Output)	Enable/Disable	Enable	Not available	
	b)	Restart After ShortCircuit	Auto/Manual	Manual	Not available	
	c)	Ch 7-0: ON/OFF Counter Limit Detection	0x00-0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	d)	Ch 7-0: Open Circuit Detection	0x00-0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	e)	Ch 7-0: Hold State for Fieldbus Fault	0x00-0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
Parameter Tab	f)	Ch 7-0: Output State for Fieldbus Fault	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0: Channel 0 : Bit7: Channel 7
DITIGAL OUTPUT	g)	Ch 7-0: Hold State for Fieldbus Idel	0x00-0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	h)	Ch 7-0: Output State for Fieldbus Idel	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0: Channel 0 : Bit7: Channel 7
	i)	Ch 7-0: Hold State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	j)	Ch 7-0: Output State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	k)	Ch# Counter Limit Value (1k-65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Compact Wireless Remote unit (EXW1-RDM#E3##) setting parameters (continured)



Compact Wireless Demote unit /		diagnastis parameters
 Compact Wireless Remote unit ((EAVVI-RDIVI#E3##)	ulaynoslic parameters

Classification		Parameter name	Display value	Note
	a)	Ch #:ON/OFF Counter Value	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
			Clr (Clear)	Clears the Input ON/OFF counter to 0.
Parameter Tab DITIGAL INPUT	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	d)	Ch 7-0:Short Circuit Detection(Input)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	a)	Ch #:ON/OFF Counter Value	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
			Clr (Clear)	Clears the Input ON/OFF counter to 0.
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
Parameter Tab DITIGAL OUTPUT	d)	Ch 7-0:Open Circuit Detection	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	f)	Ch 7-0:Short Circuit Detection(Output)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.



Comput		ireless Remote unit (EXW1) soung pa		
Classificati on	Parameter name		Set value	Initial value	Setting when power is off	Note
	a)	Brown-out Detection for US1	Enable/Disable	Enable	Not vailable	Generated error when US1 power supply voltage goes under approx. 16 V.
Parameter Tab Remote	b)	Short Circuit Detection (L+, C/Q)	Enable/Disable	Enable	Not available	Either of the following: ·L+ power supply ·C/Q signal ·P24 power supply
Unit	c)	AD Update time	100-60000	500ms	Not available	Update Time of IO-Link input Process data.
	d)	Output State Fieldbus FaultIdle	Clear/Hold/Individual	Clear	Not vailable	
	e)	Output State for RF Timeout	Clear/Hold/Individual	Hold	Not vailable	
	a)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: P1 Bit1: P2 Bit2: P3 Bit3: P4 Bit4 to 7: Reserved
	b)	Ch 7-0: Output State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output Bit0: P1 Bit1: P2 Bit2: P3 Bit3: P4 Bit4 to 7: Reserved
Parameter Tab	c)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: P1 Bit1: P2 Bit2: P3 Bit3: P4 Bit4 to 7: Reserved
IO-LinkSIO Unit	d)	Ch 7-0: Output State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output Bit0: P1 Bit1: P2 Bit2: P3 Bit3: P4 Bit4 to 7: Reserved
	e)	Ch 7-0: Hold State for RF TimeOut	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: P1 Bit1: P2 Bit2: P3 Bit3: P4 Bit4 to 7: Reserved
	f)	Ch 7-0: Output State for RF TimeOut	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output Bit0: P1 Bit1: P2 Bit2: P3 Bit3: P4 Bit4 to 7: Reserved

- Compact Wireless Remote unit (EXW1-RLAPA8C(ClassA)) setting parameters



Compac	ompact Wireless Rem		s Remote unit (EXW1-RLAPA8C(ClassA)) settin		paramete	· · · · · · · · · · · · · · · · · · ·	
Classificat ion	: Parameter name		Set value	Initial value	Setting when power is off	Note	
	a)	Pd Byte swap	Direct / Swap 16 bit / Swap 32 bit / Swap all	Direct	Not available	Swap the byte order of the process data, which is exchanged between fieldbus communication and IO-Link master.	
	b)	L+ Power ON	Power ON / 1 : Power OFF	Power ON	Not available	For Control L+. Settable IO-Link P1/P2	
		Denthemat	Protocol setting : V.2.0 0 to 32 bytes (by 2 bytes)	P1,P2: 16byte P3,P4: 0byte	NI-4		
	c)	Port Input IO-Link Size	P1 [·] 8byte		Not available		
		Dent Outrut	Protocol setting : V.2.0 0 to 32 bytes (by 2 bytes)	P1,P2: 16byte P3,P4: 0byte	Net		
	d)	Port Output IO-Link Size	Protocol setting : V.1.0 0 to 14 bytes (by 2 bytes)	P1: 8byte P2: 6byte P3,P4: 0byte	Not available		
	c)	PortMode ^{*1}	Deactivated /IOL_Manual /IOL_Autostart /DI C/Q /DO C/Q	P1, P2:IOL_Auto start P3, P4:Deactivat ed	Not available		
Parameter Tab IO-Link P#	d)	Validation& Backup ^{*1}	No Device Check /Type compatible Device V1.0 /Type compatible Device V1.1 /Type compatible Device V1.1, Backup+Restore /Type compatible Device V1.1, Restore	No Device Check	Not available		
	e)	PortCycle Time *1	0 to 191	0	Not available	0: As fast as possible 1 to 3:0.4ms 4 to 63:0.4 to 6.3 ms (by 0.1 ms) 64 to 127:6.4 to 31.6 ms(by 0.4 ms) 128 to 191:32 to 132.8 ms(by 1.6 ms	
	f)	VendorID ^{*1}	0 to 65535	0	Not available	Setting for vendor ID which is compared when the IO-Link device comparison function is valid.	
	g)	DeviceID ^{*1}	0 to 16777215	0	Not available	Setting for device ID which is compared when the IO-Link device comparison function is valid.	
·	h)	IO-Link State for Fieldbus Fault	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	*Clear/ PD Out valid : All outputs are turned OFF and process data outputs remain valid. *Clear/ PD Out invalid :	
	i)	IO-Link State for Fieldbus Idle	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	All outputs are turned OFF and Process data outputs become invalid. *Hold:	
*1 Poconn	j)	IO-Link State for RF Timeout	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	Process data outputs remain valid. IO-link master holds the last process data it received.	

- Compact Wireless Remote unit (EXW1-RLAPA8C(ClassA)) setting parameters (continued)

^{*1} Reconnect IO-Link devices when parameters are changed. Do no chage the pairing mode during the operation.



Compao		ireless Remote unit (EXW1	I-REDFATC(Classe)) setting pa		
Classificati on	Parameter name		Set value	Initial value	Setting when power is off	Note
	a)	Brown-out Detection for US1	Enable/Disable	Enable	Not vailable	Generated error when US1 power supply voltage goes under approx. 16 V.
	b)	Brown-out Detection for US2	Enable/Disable	Enable	Not vailable	Generated error when US2 power supply voltage goes under approx. 16 V.
Parameter Tab Remote Unit	c)	Short Circuit Detection (L+, C/Q)	Enable/Disable	Enable	Not available	Either of the following: ·L+ power supply ·C/Q signal ·P24 power supply
	d)	AD Update time	100 to 60000	500ms	Not available	Update Time of IO-Link input Process data.
	e)	Output State Fieldbus FaultIdle	Clear/Hold/Individual	Clear	Not vailable	
	f)	Output State for RF Timeout	Clear/Hold/Individual	Hold	Not vailable	
	a)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: P1 Bit1: P2 Bit2: P24 Bit3 to 7: Reserved
	b)	Ch 7-0: Output State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output Bit0: P1 Bit1: P2 Bit2: P24 Bit3-7: Reserved
Parameter Tab	c)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: P1 Bit1: P2 Bit2: P24 Bit3 to 7: Reserved
IO-LinkSIO Unit	d)	Ch 7-0: Output State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output Bit0: P1 Bit1: P2 Bit2: P24 Bit3 to 7: Reserved
	e)	Ch 7-0: Hold State for RF TimeOut	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: P1 Bit1: P2 Bit2: P24 Bit3 to 7: Reserved
	f)	Ch 7-0: Output State for RF TimeOut	0x00-0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output Bit0: P1 Bit1: P2 Bit2: P24 Bit3 to 7: Reserved

- Compact Wireless Remote unit (EXW1-RLBPA7C(ClassB)) setting parameters



Classificat	Parameter name		note unit (EXW1-RLBPA7C(0 Set value	Initial value	Setting when power is off	Note
Parameter Tab IO-Link P#	a)	Pd Byte swap	Direct / Swap 16 bit / Swap 32 bit / Swap all	Direct	Not available	Swap the byte order of the process data, which is exchanged between fieldbus communication and IO-Link master.
	b)	L+ Power ON	Power ON / 1 : Power OFF	Power ON	Not available	For Control L+.
	c)	Port Input IO-Link Size	Protocol setting : V.2.0 0 to 32 bytes (by 2 bytes) Protocol setting : V.1.0	P1,P2: 16byte P1: 8byte	Not available	
			0 to 14 bytes (by 2 bytes)	P2: 6byte	avallable	
	d)	Port Output IO-Link Size	Protocol setting : V.2.0 0 to 32 bytes (by 2 bytes) Protocol setting : V.1.0 0 to 14 bytes (by 2 bytes)	P1,P2: 16byte P1: 8byte P2: 6byte	Not available	
	e)	PortMode ^{*1}	Deactivated /IOL_Manual /IOL_Autostart /DI C/Q /DO C/Q	P1, P2: IOL_Auto start	Not available	
	f)	Validation& Backup ^{*1}	No Device Check /Type compatible Device V1.0 /Type compatible Device V1.1 /Type compatible Device V1.1, Backup+Restore /Type compatible Device V1.1, Restore	No Device Check	Not available	
	g)	PortCycle Time	0 to 191	0	Not available	0:As fast as possible 1 to 3:0.4ms 4 to 63:0.4 to 6.3 ms (by 0.1 ms) 64 to 127:6.4 to 31.6 ms(by 0.4 ms) 128 to 191:32 to 132.8 ms(by 1.6 ms)
	h)	VendorID ^{*1}	0 to 65535	0	Not available	Setting for vendor ID which is compared when the IO-Link device comparison function is valid.
	i)	DeviceID*1	0 to 16777215	0	Not available	Setting for device ID which is compared when the IO-Link device comparison function is valid.
	j)	IO-Link State for Fieldbus Fault	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	*Clear/ PD Out valid: All outputs are turned OFF and process data outputs remain valid. *Clear/ PD Out invalid:
	k)	IO-Link State for Fieldbus Idle	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	All outputs are turned OFF and Process data outputs become invalid. *Hold :
	I)	IO-Link State for RF Timeout	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	Process data outputs remain valid. IO-link master holds the last process data it received.

- Compact Wireless Remote unit (EXW1-RLBPA7C(ClassB)) setting parameters (continued)

^{*1} Reconnect IO-Link devices when parameters are changed. Do no chage the pairing mode during the operation.



Classificat	Parameter name		note unit (EXW1-RLBPA7C(0	Initial value	Setting when power is off	Note	
	a) Pd Byte swap		Direct / Swap 16 bit / Swap 32 bit / Swap all	Direct	Not available	Swap the byte order of the process data, which is exchanged between fieldbus communication and IO-Link master.	
	b)	L+ Power ON	Power ON / 1 : Power OFF	Power ON	Not available	For Control L+.	
	c)	Port Input	Protocol setting : V.2.0 0 to 32 bytes (by 2 bytes) Protocol setting : V.1.0	P1,P2: 16byte P1: 8byte	Not available		
			0 to 14 bytes (by 2 bytes)	P2: 6byte	avaliable		
	d)	Port Output IO-Link Size	Protocol setting : V.2.0 0 to 32 bytes (by 2 bytes) Protocol setting : V.1.0 0 to 14 bytes (by 2 bytes)	P1,P2: 16byte P1: 8byte P2: 6byte	Not available		
	e)	PortMode ^{*1}	Deactivated /IOL_Manual /IOL_Autostart /DI C/Q /DO C/Q	P1, P2: IOL_Auto start	Not available		
Parameter Tab IO-Link	f)	Validation& Backup ^{*1}	No Device Check /Type compatible Device V1.0 /Type compatible Device V1.1 /Type compatible Device V1.1, Backup+Restore /Type compatible Device V1.1, Restore	No Device Check	Not available		
P#	g)	PortCycle Time	0 to 191	0	Not available	0:As fast as possible 1 to 3:0.4ms 4 to 63:0.4 to 6.3 ms (by 0.1 ms) 64 to 127:6.4 to 31.6 ms(by 0.4 ms) 128 to 191:32 to 132.8 ms(by 1.6 ms)	
	h)	VendorID ^{*1}	0 to 65535	0	Not available	Setting for vendor ID which is compared when the IO-Link device comparison function is valid.	
	i)	DeviceID*1	0 to 16777215	0	Not available	Setting for device ID which is compared when the IO-Link device comparison function is valid.	
	j)	IO-Link State for Fieldbus Fault	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	*Clear/ PD Out valid: All outputs are turned OFF and process data outputs remain valid. *Clear/ PD Out invalid:	
	k)	IO-Link State for Fieldbus Idle	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	All outputs are turned OFF and Process data outputs become invalid. *Hold:	
	I)	IO-Link State for RF Timeout	Clear(Data Valid)/ Clear(Data Invalid)/Hold	Clear/ PD Out invalid	Not available	Process data outputs remain valid. IO-link master holds the last process data it received.	

- Compact Wireless Remote unit (EXW1-RLBPA7C(ClassB)) setting parameters (continued)

^{*1} Reconnect IO-Link devices when parameters are changed. Do no chage the pairing mode during the operation.



- Compact Wireless Remote unit (EXW1-RLAPA8C(ClassA) / EXW1-RLBPA7C(ClassB)) diagnostic parameters

Classification		Parameter name	Display value	Note
	a)	PortStatusInfo	NO_DEVICE、 DEACTIVATED、 PORT_DIAG PREOPERATE、 OPERATE、 DI_C/Q、 DO_C/Q	-
	b)	PortQualityInfo	0x00 to 0xFF	0: Process data valid 1: process data invalid Bit0:input Bit1:output Bit2 to 7:Reserved
Parameter	c)	RevisionID	0x00-0xFF	IO-Link device revision ID
Tab IO-Link P# Diagnostics	d)	TransmissionRate	NOT_DETECTED, COM1, COM2, COM3	Communication speed
	e)	MasterCycleTime	0 to 255	Port cycle time 0:As fast as possible 1 to 3:0.4ms 4 to 63:0.4 to 6.3 ms (by 0.1 ms) 64 to 127:6.4 to 31.6 ms (by 0.4 ms) 128 to 191:32 to 132.8 ms (by 1.6 ms) 192 to 255:132.8 ms
	f)	InputDataLength	0 to 32	Process input data length
	g)	OutputDataLength	0 to 32	Process output data length
	h)	VendorID	0 to 65535	Vendor ID of the IO-Link device connected
	i)	DeviceID	0 to 16777215	Device ID of the IO-Link device connected



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
_	a)	Brown-out Detection for US1	Enable/Disable	Enable	Not available	
Parameter	b)	Communication failure	Clear/Hold	Hold	Not available	
Tab Remote	c)	Short Circuit Detection (L+, C/Q)	Enable/Disable	Enable	Not available	
Unit	d)	AD Update time	100 to 60000	500ms	Not available	
	a)	ParameterEnable/Disable	Enable/Disable	Enable	Not available	
	b)	OperationPressure	0-1050	400	Not available	
	c)	StandbyPressure	0-1050	200	Not available	
	d)	SoftStartTime	0-1500	0	Not available	
		StandbyFlowRate (Threshold)(20)	5-525	25	Not available	EXA1-20-SA
		StandbyFlowRate (Threshold)(30)	10-1050	50	Not available	EXA1-30-SA
	e)	StandbyFlowRate (Threshold)(40)	20-2100	100	Not available	EXA1-40-SA
		StandbyFlowRate (Threshold)(60)	40-4200	200	Not available	EXA1-60-SA
	f)	StandbyFlowRate (Hysteresis)(20)	0-520	50	Not available	EXA1-20-SA
		StandbyFlowRate (Hysteresis)(30)	0-1040	100	Not available	EXA1-30-SA
		StandbyFlowRate (Hysteresis)(40)	0-2080	200	Not available	EXA1-40-SA
Parameter		StandbyFlowRate (Hysteresis)(60)	0-4100	400	Not available	EXA1-60-SA
Tab	g)	StandbyOnDelay	0-9999	600	Not available	
HUB	h)	StandbyOffDelay	0-9999	0	Not available	
Unit	i)	IsolationEnable/Disable	Enable/Disable	Disable	Not available	
	j)	IsolationDelay	0-9999	3600	Not available	
	k)	EnergySavingMode	AMS/Operation/Stand by/ Isolation	AMS	Not available	
	I)	Pin(SecurityCodeUsed/NotUse d)	Unused/Used	Unused	Not available	
	m)	PinCode(SecurityCodeSetting)	0-999	0	Not available	
	n)	DeviceAccessLockForPF3A	Key lock release, DS unlock / Key lock, DS unlock	Key lock release, DS unlock	Not available	
	o)	L+ Power ON AMS ITV	Power ON / Power OFF	Power ON	Not available	
	p)	L+ Power ON AMS Standby/VP	Power ON / Power OFF	Power ON	Not available	
	q)	DeviceAccessLockForITV	Key lock release, DS unlock / Key lock, DS unlock	Key lock release, DS unlock	Not available	

- Wireless Remote unit (EXA1-20-SA/EXA1-30-SA/EXA1-40-SA/EXA1-60-SA) setting parameters



Classificati		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Pd Byte swap	Direct / Swap 16 bit / Swap 32 bit / Swap all	Enable	Not available	
	b)	L+ Power On	Power ON / 1 : Power OFF	400	Not available	
	c)	PortMode ^{*1}	Deactivated /IOL_Manual /IOL_Autostart /DI C/Q /DO C/Q	200	Not available	
Parameter Tab IO-Link	d)	Validation&Backup ^{*1}	No Device Check /Type compatible Device V1.0 /Type compatible Device V1.1 /Type compatible Device V1.1, Backup+Restore /Type compatible Device V1.1, Restore	0	Not available	
Unit	e)	PortCycleTime*1	0-191	600	Not available	0:As fast as possible 1 to 3:0.4ms 4 to 63:0.4 to 6.3 ms (by 0.1 ms) 64 to 127:6.4 to 31.6 ms(by 0.4 ms) 128 to 191:32 to 132.8 ms(by 1.6 ms)
	f)	VendorID*1	0~65535	0	Not available	Setting for vendor ID which is compared when the IO-Link device comparison function is valid.
	g)	DeviceID*1	0~16777215	Disable	Not available	Setting for device ID which is compared when the IO-Link device comparison function is valid.

- Wireless Remote unit (EXA1-20-SA/EXA1-30-SA/EXA1-40-SA/EXA1-60-SA) setting parameters (continued)

^{*1} Reconnect IO-Link devices when parameters are changed. Do no chage the pairing mode during the operation.

- Wireless Remote unit (EXA1-20-SA/EXA1-30-SA/EXA1-40-SA/EXA1-60-SA) diagnostic parameters

Classification	Parameter name		Display value	Note
Parameter	a)	Accumulated Flow Reset	Clr(Clear)	Clear the Accumulated Flow value
Tab	L)	AD/IT) / Active Mede		Active mode for EXA1 **
HUB	D)	AR/ITV Active Mode	ITV / AR	Active mode for EXA1-**



Classificat ion		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	HOLD/CLR (unit)	CLEAR / HOLD / Software Control	CLEAR	Available	Setting the output operation when the fieldbus communication is disconnected.
	b)	Input size	0 to 128 points (0 to 16 bytes) Increase and decrease by 16 points (2 bytes).	128 points / 16 byte	Available	
	c)	Output size (includes valves)	0 to 128 points (0 to 16 bytes) Increase and decrease by 16 points (2 bytes).	128 points / 16 byte	Available	
Remote setting	d)	in which includes a valve density of	0 to 32 points (0 to 4 bytes) Increase and decrease by 8 points (1 byte).	32 points / 4 byte	Available	The valve manifold output points are included in the module output points. The number of effective points are limited to within the setting range of the module output points.
	e)	Wireless signal	Active / Idle	Active	Available	If set to "Idle", the wireless communication is disconnected.
	f)	AD refresh time (sec)	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 s	1 s	Available	Set the sampling frequency of the analog input equipment.
	g)	Unit address order	Mode 1 / Mode 2	Mode 1	Available	Mode 1: Allocation to the right from the end plate. Mode 2: Allocation to the left from the wireless unit.
Pairing setting	a)	Pairing	Normal / pairing modes	Normal mode	Available	Normal mode: Wireless Remote cannot be registered (Communication with the registered Remote will be established). Pairing mode: Wireless Remote can be registered.
	a)	Unit:Brown-out Detection for US1	Enable / Disable	Enable	Not available	
Parameter Tab	b)	Unit:Brown-out Detection for US2	Enable / Disable	Disable	Not available	
Remote	c)	Unit: Byte Order	LSB-MSB / MSB-LSB	LSB-MSB	Not available	

- Wireless Remote unit (manifold type) (EX600-WSV#) setting parameters



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Short Circuit Detection(OUTPUT)	Enable/Disable	Enable	Not available	
	b)	Unit:Restart After Short Circuit	Auto/Manual	Manual	Not available	
	c)	Ch 7-0: Open Circuit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	d)	Ch 15-8: Open Circuit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 8 : Bit7:Channel 15
	e)	Ch 23-16: Open Circuit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 16 : Bit7:Channel 23
Parameter Tab	f)	Ch 31-24: Open Circuit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 24 : Bit7: Channel 31
	g)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 0 : Bit7:Channel 7
	h)	Ch 15-8: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 8 : Bit7: Channel 15
	i)	Ch 23-16: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 16 : Bit7: Channel 23
	j)	Ch 31-24: Hold State for Fieldbus Faul	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 24 : Bit7:Channel 31

- Wireless Remote EX600-WSV valve manifold unit (EX600-WSV) setting parameters



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	k)	Ch 7-0: OUTPUT State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	I)	Ch 15-8: OUTPUT State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 8 : Bit7:Channel 15
	m)	Ch 23-16: OUTPUT State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 16 : Bit7:Channel 23
Parameter	n)	Ch 31-24: OUTPUT State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 24 : Bit7:Channel 31
Tab	o)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	p)	Ch 15-8: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 8 : Bit7:Channel 15
	q)	Ch 23-16: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 16 : Bit7:Channel 23
	r)	Ch 31-24: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 24 : Bit7: Channel 31

- Wireless Remote EX600-WSV valve manifold unit (EX600-WSV) setting parameters (continured)



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	s)	Ch 7-0: OUTPUT State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0: Channel 0 : Bit7: Channel 7
	t)	Ch 15-8: OUTPUT State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 8 : Bit7:Channel 15
	u)	Ch 23-16: OUTPUT State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 16 : Bit7:Channel 23
	v)	Ch 31-24: OUTPUT State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 24 : Bit7:Channel 31
Parameter Tab	w)	Ch 7-0: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	x)	Ch 15-8: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 8 : Bit7:Channel 15
	y)	Ch 23-16: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 16 : Bit7:Channel 23
	z)	Ch 31-24: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 24 : Bit7:Channel 31
	A)	Ch# Counter Limit Value (1k- 65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Wireless Remote EX600-WSV valve manifold unit (EX600-WSV) setting parameters (continured)



Classification		Parameter name	Display value	Note	
	1		0 - 4294967295		
	a)	Ch #:ON/OFF Counter	(0 to 0xFFFFFFF)	ON/OFF count upper limit value ^{*1}	
		Value	Clr (Clear)	Clears the Input ON/OFF counter to 0.	
				0: No error	
		Ch 7 0. Eveneded		1: Error	
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	Bit0: There is an error in channel 0.	
				:	
				Bit7: There is an error in channel 7.	
				0: No error	
		Ch 15-8:Exceeded		1: Error	
	c)	ON/OFF Counter Limit	0x00-0xFF	Bit0: There is an error in channel 8.	
				:	
				Bit7: There is an error in channel 15.	
				0: No error	
	-0	Ch 23-16:Exceeded		1: Error	
	d)	ON/OFF Counter Limit	0x00-0xFF	Bit0: There is an error in channel 16.	
				: Dit7: There is an error in shannel 22	
				Bit7: There is an error in channel 23. 0: No error	
	e)	Ch 31-24:Exceeded		1: Error	
			0x00-0xFF	Bit0: There is an error in channel 24.	
Parameter	0)	ON/OFF Counter Limit			
Tab				Bit7: There is an error in channel 31.	
		Ch 7-0:Open Circuit Detection		0: No error	
			0x00-0xFF	1: Error	
	f)			Bit0: There is an error in channel 0.	
				:	
				Bit7: There is an error in channel 7.	
				0: No error	
		Ch 15-8:Open Circuit		1: Error	
	g)	Detection	0x00-0xFF	Bit0: There is an error in channel 8.	
				:	
				Bit7: There is an error in channel 15.	
				0: No error	
	L.\	Ch 23-16:Open Circuit		1: Error	
	h)	Detection	0x00-0xFF	Bit0: There is an error in channel 16.	
				- Bit7: Thoro is an arror in channel 22	
				Bit7: There is an error in channel 23. 0: No error	
				1: Error	
	i)	Ch 31-24:Open Circuit	0x00-0xFF	Bit0: There is an error in channel 24.	
	"	Detection			
				· Bit7: There is an error in channel 31.	
L	1				

- Wireless Remote EX600-WSV valve manifold unit (EX600-WSV) diagnostic parameters



Classification		Parameter name	Display value	Note
	j)	Ch 7-0:Short Circuit Detection(OUTPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
Parameter	k)	Ch 15-8: Short Circuit Detection(OUTPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
Tab	I)	Ch 23-16:Short Circuit Detection(OUTPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 16. : Bit7: There is an error in channel 23.
	m)	Ch 31-24:Short Circuit Detection(OUTPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 24. : Bit7: There is an error in channel 31.

- Wireless Remote EX600-WSV valve manifold unit (EX600-WSV) diagnostic parameters (continured)



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Short Circuit Detection(Power)	Enable/Disable	Enable	Not available	
	b)	Unit:Inrush Current Filter	Enable/Disable	Disable	Not available	
	c)	Unit:INPUT Filtering Time	0.1/1.0/10/20ms	1.0ms	Not available	
	d)	Unit:INPUT Hold Time	1.0/15/100/200ms	15 ms	Not available	
Parameter	e)	Ch 7-0: Open Circuit Detection ^{*1}	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 0 : Bit7: Channel 7
Tab	f)	Ch 7-0: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 0 : Bit7: Channel 7
	g)	Ch 15-8: ON/OFF Counter Limit Detection ^{*2}	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 8 : Bit7: Channel 15
	h)	Ch# Counter Limit Value (1k- 65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Wireless Remote EX600-WSV Digital input unit (EX600-DX**) setting parameters

*1: Open Circuit Detection is a function only available for digital input unit (EX600-DXPC1, EX600-DXNC1) with Open Circuit Detection.

*2: This function is available for digital input unit with 16 channels (EX600-DX*D、EX600-DX*E、EX600-DX*F).



Classification		Parameter name	Display value	Note
	a)	Ch #:ON/OFF Counter Value	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
			Clr (Clear)	Clears the Input ON/OFF counter to 0.
				0: No error
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	c)	Ch 15-8:Exceeded ON/OFF Counter Limit *2	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
Parameter Tab	d)	Ch 7-0:Open Circuit Detection ^{*1}	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	e)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	f) Ch 15-8: Short Circuit Detection(INPUT) ⁺²		0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.

- Wireless Remote EX600-WSV Digital input unit (EX600-DX**) diagnostic parameters

*1: Open Circuit Detection is a function only available for digital input unit (EX600-DXPC1, EX600-DXNC1) with Open Circuit Detection.

*2: This function is available for digital input unit with 16 channels (EX600-DX*D、EX600-DX*E、EX600-DX*F).



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Short Circuit Detection(OUTPUT)	Enable / Disable	Enable	Not available	
	b)	Unit:Restart After Short Circuit	Auto / Manual	Manual	Not available	
	c)	Ch 7-0: Open Circuit Detection ^{*1}	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	d)	Ch 15-8: Open Circuit Detection ^{*1}	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 8 : Bit7: Channel 15
Parameter Tab	e)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 0 : Bit7:Channel 7
	f)	Ch 15-8: Hold State for Fieldbus Fault ^{*1}	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 8 : Bit7:Channel 15
	g)	Ch 7-0: OUTPUT State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0: Channel 0 : Bit7: Channel 7
	h)	Ch 15-8: OUTPUT State for Fieldbus Fault ^{*1}	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 8 : Bit7:Channel 15 EX600 DX*E

- Wireless Remote EX600-WSV Digital output unit (EX600-DY**) setting parameters

*1: This function is available for digital output unit with 16 channels (EX600-DY*E、EX600-DY*F).



Classificati on	Parameter name		Set value	Initial value	Setting when power is off	Note
	i)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 0 : Bit7: Channel 7
	j)	Ch 15-8: Hold State for Fieldbus Idle ^{*1}	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0:Channel 8 : Bit7:Channel 15
	k)	Ch 7-0: OUTPUT State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
Parameter Tab	I)	Ch 15-8: OUTPUT State for Fieldbus Idle ^{*1}	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 8 : Bit7:Channel 15
	m)	Ch 7-0: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	n)	Ch 15-8: ON/OFF Counter Limit Detection ^{*1}	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 8 : Bit7:Channel 15
	o)	Ch# Counter Limit Value (1k- 65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Wireless Remote EX600-WSV Digital output unit (EX600-DY**) setting parameters (continured)

*1: This function is available for digital output unit with 16 channels (EX600-DY*E、EX600-DY*F).



Classification		Parameter name	Display value	Note
	a)	Ch #:ON/OFF Counter	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value ^{*1}
		Value	Clr (Clear)	Clears the Input ON/OFF counter to 0.
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	c)	Ch 15-8:Exceeded ON/OFF Counter Limit *1	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
Parameter Tab	d)	Ch 7-0:Open Circuit Detection	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	e)	Ch 15-8:Open Circuit Detection ^{*1}	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.
	f)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	g)	Ch 15-8: Short Circuit Detection(INPUT) ^{*1}	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 8. : Bit7: There is an error in channel 15.

- Wireless Remote EX600-WSV Digital input unit (EX600-DY**) diagnostic parameters

*1: This function is available for digital output unit with 16 channels (EX600-DY*E、EX600-DY*F).



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Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Short Circuit Detection(Power)	Enable/Disable	Enable	Not available	
	b)	Unit:Inrush Current Filter	Enable/Disable	Disable	Not available	
	c)	Unit:INPUT Filtering Time	0.1/1.0/10/20ms	1.0ms	Not available	
Parameter	d)	Unit:INPUT Hold Time	1.0/15/100/200ms	15 ms	Not available	
Tab	e)	Ch 7-0: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0: Channel 0 : Bit7: Channel 7
	f)	Ch# Counter Limit Value (1k- 65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Wireless Remote EX600-WSV Digital input / output unit (EX600-DM**) setting parameters for input

- Wireless Remote EX600-WSV Digital input / output unit (EX600-DM**) diagnostic parameters for input

Classification		Parameter name	Display value	Note
	a)	Ch #:ON/OFF Counter	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
		Value	Clr (Clear)	Clears the Input ON/OFF counter to 0.
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0.
Parameter Tab				: Bit7: There is an error in channel 7.
	c)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Short Circuit Detection(OUTPUT)	Enable / Disable	Enable	Not available	
	b)	Unit:Restart After Short Circuit	Auto / Manual	Manual	Not available	
	c)	Ch 7-0: Open Circuit Detection ^{*1}	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	d)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 8 : Bit7: Channel 15
Parameter Tab	e)	Ch 7-0: OUTPUT State for Fieldbus Fault	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	f)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0xFF	0xFF	Not available	0: Hold the output 1: Depend on output state Bit0: Channel 8 : Bit7: Channel 15
	g)	Ch 7-0: OUTPUT State for Fieldbus Idle	0x00 to 0xFF	0x00	Not available	0: Turn off the output 1: Turn on the output forcefully Bit0:Channel 0 : Bit7:Channel 7
	h)	Ch 7-0: ON/OFF Counter Limit Detection	0x00 to 0xFF	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 : Bit7:Channel 7
	i)	Ch# Counter Limit Value (1k- 65000k)	1 to 65000	65000	Not available	Times for setting is set value x1000 times

- Wireless Remote EX600-WSV Digital input / output unit (EX600-DM**) setting parameters for output



Classification		Parameter name	Display value	Note
	a)	Ch #:ON/OFF Counter	0 - 4294967295 (0 to 0xFFFFFFF)	ON/OFF count upper limit value *1
		Value	Clr (Clear)	Clears the Input ON/OFF counter to 0.
	b)	Ch 7-0:Exceeded ON/OFF Counter Limit	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
Parameter Tab	c)	Ch 7-0:Open Circuit Detection	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.
	d)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: There is an error in channel 0. : Bit7: There is an error in channel 7.

- Wireless Remote EX600-WSV Digital input / output unit (EX600-DM**) diagnostic parameters for output



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Analog Data Format	Offset binary/ Signed magnitude/ 2's complement/ Scaled(AXB only) ^{*1}	Offset binary	Not available	
	b)	Ch #: Analog Range	-10+10 V/ -5+5 V/ 010 V/ 05 V/ 15 V/ 020 mA/ 420 mA/ -20+20 mA	(AXA)-1010 V (AXB) 15 V	Not available	Selects the analogue input range. (AXB: Cannot select -1010 V/-55 V/ -2020 mA)
	c)	Ch #: Analog Filter	None / 2AVG / 4AVG / 8AVG	2AVG	Not available	
Parameter Tab	d)	Ch 7-0: Upper Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2:Channel 2 (available AXB) Bit3:Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)
	e)	Ch #: Upper Limit Value	-32766 to 32767	1000	Not available	
	f)	Ch 7-0: Lower Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2:Channel 2 (available AXB) Bit3:Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)
	g)	Ch #: Lower Limit Value	-32766 to 32767	0	Not available	
	h)	Unit:Short Circuit Detection(Power)	Enable / Disable	Enable	Not available	
	i)	Unit:Over Range	Enable / Disable	(AXA)Enable (AXB)Disable	Not available	
	j)	Unit:Under Range	Enable / Disable	(AXA)Enable (AXB)Disable	Not available	

- Wireless Remote EX600-WSV Analog input unit (EX600-AX*) setting parameters

*1: This Scaled data format is available for analog input unit with 4 channels (EX600-AXB).



- Wireless Remote EX600-WSV	Analog input unit (EX600-AX*)	diagnostic parameters

Classification		Parameter name	Display value	Note
	a)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: Channel 2 (available AXB) Bit3: Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)
	b)	Ch 7-0: User Setting Value Upper Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: Channel 2 (available AXB) Bit3: Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)
Parameter Tab	c)	Ch 7-0: User Setting Value Lower Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: Channel 2 (available AXB) Bit3: Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)
	d)	Ch 7-0: Over Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: Channel 2 (available AXB) Bit3: Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)
	e)	Ch 7-0: Under Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: Channel 2 (available AXB) Bit3: Channel 3 (available AXB) Bit4: 0 (N/A) : Bit7: 0 (N/A)



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Analog Data Format	Offset binary/ Signed magnitude/ 2's complement/ Scaled	Offset binary	Not available	
	b)	Ch #: Analog Range	010 V/ 05 V/ 15 V/ 020 mA/ 420 mA	010 V	Not available	Selects the analogue input range.
	c)	Ch 7-0: Upper Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	d)	Ch #: Upper Limit Value	-32766 to 32767	1000	Not available	
	e)	Ch 7-0: Lower Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) :
Parameter Tab	f)	Ch #: Lower Limit Value	-32766 to 32767	0	Not available	Bit7: 0 (N/A)
	g)	Unit:Short Circuit Detection(Power)	Enable / Disable	Enable	Not available	
	h)	Unit:Over Range	Enable / Disable	Disable	Not available	
	i)	Unit:Under Range	Enable / Disable	Disable	Not available	
	j)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0x03	0x00 (hold last state)	Not available	0: Output will be held last state. 1: Output will be user fault value. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	k)	Ch #: Analog Field Comm Fault Value	0 to 65535	0	Not available	
	I)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0x03	0x00 (hold last state)	Not available	0: Output will be held last state. 1: Output will be user idle value. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	m)	Ch #: Analog Field Comm Idle Value	0 to 65535	0	Not available	

- Wireless Remote EX600-WSV Analog output unit (EX600-AYA) setting parameters



Classification		Parameter name	Display value	Note
	a)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	b)	Ch 7-0: User Setting Value Upper Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
Parameter Tab	c)	Ch 7-0: User Setting Value Lower Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	d)	Ch 7-0: Over Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	e)	Ch 7-0: Under Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)

- Wireless Remote EX600-WSV Analog output unit (EX600-AYA) diagnostic parameters



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Analog Data Format	Offset binary/ Signed magnitude/ 2's complement/ Scaled	Offset binary	Not available	
	b)	Ch #: Analog Range	010 V/ 05 V/ 15 V/ 020 mA/ 420 mA/	15 V	Not available	Selects the analogue input range.
	c)	Ch #: Analog Filter	None / 2AVG / 4AVG / 8AVG	2AVG	Not available	
Parameter	d)	Ch 7-0: Upper Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
Tab	e)	Ch #: Upper Limit Value	-32766 to 32767	1000	Not available	
	f)	Ch 7-0: Lower Limit	0x00 to 0x03	0×00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	g)	Ch #: Lower Limit Value	-32766 to 32767	0	Not available	
	h)	Unit:Short Circuit Detection(Power)	Enable / Disable	Enable	Not available	
	i)	Unit:Over Range	Enable / Disable	Disable	Not available	
	j)	Unit:Under Range	Enable / Disable	Disable	Not available	

- Wireless Remote EX600-WSV Analog input / output unit (EX600-AMB) setting parameters for input



Classification		Parameter name	Display value	Note
	a)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	b)	Ch 7-0: User Setting Value Upper Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
Parameter Tab	c)	Ch 7-0: User Setting Value Lower Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	d)	Ch 7-0: Over Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	e)	Ch 7-0: Under Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)

- Wireless Remote EX600-WSV Analog input / output unit (EX600-AMB) diagnostic parameters for input



Classificati on		Parameter name	Set value	Initial value	Setting when power is off	Note
	a)	Unit:Analog Data Format	Offset binary/ Signed magnitude/ 2's complement/ Scaled	Offset binary	Not available	
	b)	Ch #: Analog Range	010 V/ 05 V/ 15 V/ 020 mA/ 420 mA	010 V	Not available	Selects the analogue input range.
	c)	Ch 7-0: Upper Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	d)	Ch #: Upper Limit Value	-32766 to 32767	1000	Not available	
	e)	Ch 7-0: Lower Limit	0x00 to 0x03	0x00	Not available	1: Generates an error. 0; Does not generate an error. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) :
Parameter Tab	f)	Ch #: Lower Limit Value	-32766 to 32767	0	Not available	Bit7: 0 (N/A)
	g)	Unit:Short Circuit Detection(Power)	Enable / Disable	Enable	Not available	
	h)	Unit:Over Range	Enable / Disable	Disable	Not available	
	i)	Unit:Under Range	Enable / Disable	Disable	Not available	
	j)	Ch 7-0: Hold State for Fieldbus Fault	0x00 to 0x03	0x00 (hold last state)	Not available	0: Output will be held last state. 1: Output will be user fault value. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	k)	Ch #: Analog Field Comm Fault Value	0 to 65535	0	Not available	· · · · ·
	I)	Ch 7-0: Hold State for Fieldbus Idle	0x00 to 0x03	0x00 (hold last state)	Not available	0: Output will be held last state. 1: Output will be user idle value. Bit0:Channel 0 Bit1:Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	m)	Ch #: Analog Field Comm Idle Value	0 to 65535	0	Not available	

- Wireless Remote EX600-WSV Analog input / output unit (EX600-AMB) setting parameters for output



Classification		Parameter name	Display value	Note
	a)	Ch 7-0:Short Circuit Detection(INPUT)	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	b)	Ch 7-0: User Setting Value Upper Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
Parameter Tab	c)	Ch 7-0: User Setting Value Lower Limit Error	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	d)	Ch 7-0: Over Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)
	e)	Ch 7-0: Under Range Detection	0x00-0xFF	0: No error 1: Error Bit0: Channel 0 Bit1: Channel 1 Bit2: 0 (N/A) : Bit7: 0 (N/A)

- Wireless Remote EX600-WSV Analog input / output unit (EX600-AMB) diagnostic parameters



- Parameters in common with	h Wireless Base units and Wireless Remote units

Classification	Parameter name	Set value	Initial value	Setting when power is off	Note
Information	TAG	Max. 15 characters	Part No (EX600-WEN#) (EX600-WSV#) (EX600-WSV#) (EXW1-BMJA#) (EXW1-BDNAC) (EXW1-BENAC1) (EXW1-BENAC1) (EXW1-BPNAC1) (EXW1-RDXNE4#) (EXW1-RDYNE4#) (EXW1-RDM#E3) (EXW1-RLAPA8C) (EXW1-RLBPA7C)	Available	Characters which can be input are half-width characters (alphabet, numbers, symbols) representable in ASCII code. Half-width katakana cannot be entered.



7. Troubleshooting

Problem no.	Problem	Possible causes	Inspection and countermeasures
1	The Wireless Base / Remote unit information cannot be read even when the [Refresh] button is clicked.	 The NFC reader / writer has moved away from the antenna of the Wireless Base / Remote unit. The PC does not identify the NFC reader / writer. 	 Adjust the NFC reader / writer so that it is positioned at the centre of the NFC antenna (circled part). 2-1: Remove the NFC reader / writer from the USB terminal of the PC and connect it again. 2-2: Uninstall the driver for "NFC Port / PaSoRi" and then install it again. 2-3: Install the NFC reader / writer connection driver NFC port software again.
2	Logged in to Administrator mode, but I/O setting or pairing setting cannot be performed.	The mode has been switched to Monitor mode. Mode automatically changes to Monitor mode when there is no movement of the mouse for 300 seconds in the I/O Configurator.	Log in again to Administrator mode.
3	Password forgotten.	-	Delete the password by entering the master key. Refer to "2.4 Monitor mode and Administrator mode" for details.
4	The Wireless Remote unit is registered to the Wireless Base unit, but a communication error was confirmed in the Information tab.	 The radio waves do not reach between the Wireless Base and Remote. The Wireless Remote settings might have been changed after the Remote was registered. 	 Check the LED on the unit. Release pairing once, and perform pairing again.
5	The set parameters were changed by the Wireless Base (Remote) or with "System setting", but the changes are not reflected.	"Reset" was not performed after saving the set parameters.	Turn off the power supply and on again or click the "Reset" button.
6	The analog output unit voltage (current) was specified numerically in forced output mode, but the correct value is not output.	 The set value is outside of the range. Scaled data format has been selected for analog format. 	 Enter a value within the range or change the unit setting using the I/O Configurator (Web version). The value must be in hexadecimal. Refer to the EX600 Analog unit Operation Manual for details.



Problem no.	Problem	Possible causes	Inspection and countermeasures
7	Not possible to change to forced output mode.	 Connected with higher unit. Mode is Monitor mode. 	 Disconnect the unit from the higher unit. Login from the Administrator mode.
8	The Wireless Remote unit does not operate with the set input / output size.	The Wireless Remote operates with the input / output size set when the Wireless Remote was registered.	The Wireless Remote follows the input / output size when it was registered to the Wireless Base. Check the Wireless Remote input / output size from the Wireless Base. If the size is not correct, register the size again.
9	The location and the type of error being generated is unknown.	-	Check the system configuration on the Information tab of the Wireless Base to identify the unit with an error. Check the diagnostic information from the Description to identify the error. Refer to "5.1 Information tab" for details and diagnostic information of each unit.
10	Free Remotes are not displayed when registering the Remote.	 The Wireless Remote is not in pairing mode. The Wireless Remote is already registered. Another Wireless Base is in pairing mode. 	 Check that the Wireless Remote is in registration mode. When the Wireless Remote is already registered, it needs to be deleted to register it again. When another Wireless Base is in pairing mode, the Wireless Remote will be displayed for the Base. Keep to having one Wireless Base in pairing mode.



8. Specifications / technical information / supplementary information

8.1 Terminology

	Term	Definition			
A	Administrator mode	Administrator mode allows the user to configure the wireless units. Wireless Base / Remote become settable.			
В	Broken line detection	A broken wire to the input or output equipment has been detected by the diagnostic function.			
D	DHCP	A protocol that automatically allocates information, necessary to be registered to use the network, such as an IP address, to individual devices connected to the TCP/IP network.			
	Dummy Remote	A dummy Remote can be used to reserve a dummy area within the I/O map. A Wireless Remote can then be registered to the dummy area at a later time, without having to change the I/O map.			
Е	Export	Function to save the configured values of a wireless unit by exporting them to a PC.			
F	Fieldbus	Network protocol to establish digital communication between an automated industrial system such as with measurement equipment or manipulation equipment and a PLC.			
	Full duplex	Communication system that can send and receive data at the same time bi- directionally.			
Η	Half-duplex	Communication method that can send and receive data reciprocally in bi-directional communication.			
I	Import	Function to reconfigure a wireless unit by importing values stored on a PC.			
	I/O Configurator (NFC version)	Application used to directly set and monitor the wireless unit parameters via an NFC reader / writer.			
	І/О Мар	Memory area reserved for the I/O data and diagnostic information of the wireless system.			
	IP address	A 32-bit digit sequence which is assigned to identify devices which are connected to the network.			
М	MAC address	A unique number assigned to all devices connected to an EtherNet network.			
	Manifold	A branching object. An object providing convergence.			
	Module	A module consists of a Wireless Base / Wireless Remote combined with I/O units and valve manifolds.			
	Monitor mode	Mode which possesses the privileges to monitor the I/O Configurator (NFC version). Wireless Base / Remote settings can be monitored but setting cannot be performed.			
Ν	NFC	Abbreviation of Near Field Communication. A non-contact short distance wireless communication used for configuration of the wireless units. The I/O Configurator (NFC version) can directly command the Wireless Base / Remote through an NFC reader / writer.			
	Number of inputs	Number of points which can receive information from input equipment such as a sensor or switch.			
	Number of outputs	Number of points which can operate output equipment such as a valve, lamp or motor starter.			



	Term	Definition		
0	Occupied points for the module input / output	Number of I/O points that can be controlled by a module.		
Р	Pairing	Registration of the PID (Product ID) of the Wireless Remote unit to be connected to the Wireless Base unit. Registration occurs at the initial setting, then the wireless system will activate.		
	PID	Abbreviation of Product ID. A 32-bit numeric string allocated to identify the wireless unit (Base / Remote).		
	PLC	Abbreviation of Programmable Logic Controller. A digital computer used for automation of electromechanical processes.		
R	Refresh button	Button to display the latest configuration of the wireless units, set by the I/O Configurator (NFC version).		
	Remote Control	The mode to respond to the commands of BOOTP / DHCP Server provided by Rockwell Automation. Gateway address and subnet mask can be set to any value.		
	Reset button	Button to update the wireless units with the latest configuration set by the I/O Configurator (NFC version). Restarting the controller will also activate the setting.		
S	Short circuit detection	Diagnostic function which detects generation of an overcurrent due to a short circuit between the output and the positive power supply line or the ground line.		
	Short circuit protection	Function which avoids damage to the internal circuit when overcurrent is generated due to short circuit between the output and the positive power line or the ground line.		
W	Wireless Base	A unit which establishes wireless communication of input or output data to the Wireless Remote. It is connected to a PLC to establish communication of input or output data.		
	Wireless channel	Identification number of the Wireless Remote unit connected to the Wireless Base unit.		
	Wireless Remote	A unit which establishes wireless communication of input or output data to a Wireless Base.		
	Wireless unit	A unit which establishes wireless communication. This is a generic name for the Wireless Base and Remote units.		



Revision history

Revision no.	Applicable models	Updated content	
2.0.0	EX600-WEN# EX600-WSV#	First edition	
2.1.0	EX600-WPN# EX600-WSV#	Version for EX600-WPN#	
2.2.0	EX600-WEN# EX600-WPN# EX600-WSV#	Common version for EX600-WEN# and EX600-WPN# ACS reader / writer has been added to verified NFC reader / writers.	
2.6.0	EX600-WEN# EX600-WPN# EX600-WSV#	Remote Control function added to Ethernet setting Change to wireless unit naming	
2.9.0	EX600-WEN# EX600-WPN# EX600-WSV# EXW1-RDXNE4# EXW1-RDYNE4# EXW1-RDM#E3 EXW1-BMJA#	Addition of EXW1 series	
2.10.0	EX600-WEN# EX600-WPN# EX600-WSV# EXW1-RDXNE4# EXW1-RDYNE4# EXW1-RDM#E3 EXW1-BMJA# EXW1-BECAC	Addition of EXW1-BECAC	
2.11.0	EXMI BEORG EX600-WEN# EX600-WSV# EXW1-RDXNE4# EXW1-RDYNE4# EXW1-RDM#E3 EXW1-BMJA# EXW1-BECAC EXW1-RL#	Addition of EXW1-RL# series and Parameter tab	
2.12.0	EX600-WEN# EX600-WPN# EX600-WSV# EXW1-RDXNE4# EXW1-RDM#E3 EXW1-RDM#E3 EXW1-BMJA# EXW1-BECAC EXW1-BENAC1 EXW1-BPNAC1 EXW1-RL#	Addition of EXW1-BENAC1,EXW1-BPNAC1 series EXW1-RD* and EXA1 parameters added to Parameter tab	



Revision history

Revision no.	Applicable models	Updated content
2.13.0	EX600-WEN# EX600-WSV# EX600-WSV# EXW1-RDXNE4# EXW1-RDYNE4# EXW1-RDM#E3 EXW1-BMJA# EXW1-BMJA# EXW1-BDNAC EXW1-BENAC1 EXW1-BPNAC1 EXW1-RL#	Addition of EXW1-BDNAC series EX600-WSV and EX600 I/O unit parameters added to Parameter tab



Revision history

- A: Contents revised in several places. [August 2018]
- B: Contents are added. [August 2018]
- C: Contents revised in several places. [November 2019]
- D: Content changes [March 2022]
- E: Content changes [July 2023]
- F: Content changes [December 2023]
- G: Content changes [February 2024]
- H: Content changes [August 2024]

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