Before Use Wireless System

EX600-WPN#



Thank you for purchasing an SMC EX600-WPN# SMC Wireless System. Please read this manual carefully before operating the product and make sure you understand its capabilities and limitations. Please keep this manual handy for

> To obtain the operation manual about this product and control unit, please refer to the SMC website (URL https://www.smcworld.com) or contact SMC directly

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage.

These instructions indicate the level of potential hazard with the labels of "Caution", " Warning" or "Danger". They are all important notes for safety and must be followed in addition to International standards (ISO/IEC) and other safety

CAUTION indicates a hazard with a low level of risk which, if ⚠ Caution: CAUTION IIIUICATES A HAZARU WILL I A ION SOLD SOLD Not avoided, could result in minor or moderate injury.



⚠ Warning: WARNING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.



⚠ Danger: DANGER indicates a mazard with a magnitude of the not avoided, will result in death or serious injury. DANGER indicates a hazard with a high level of risk which, if

Operator

- ◆ This operation manual is intended for those who have knowledge of machinery using pneumatic equipment, and have sufficient knowledge of assembly operation and maintenance of such equipment. Only those persons are allowed to perform assembly, operation and maintenance.
- ◆ Read and understand this operation manual carefully before assembling, operating or providing maintenance to the product.

■Safety Instructions

⚠ Warning

■Do not disassemble, modify (including changing the printed circuit board) or repair. An injury or failure can result

■Do not operate or set with wet hands
This may lead to an electric shock.

■ Do not operate the product outside of the specifications

Fire, malfunction, or damage to the product can result Verify the specifications before use.

■ Do not operate in an atmosphere containing flammable or explosive gases.

This product is not designed to be explosion proof.

■ If using the product in an interlocking circuit:

Provide a double interlocking system, for example a mechanical system.

•Check the product regularly for proper operation.

Otherwise malfunction can result, causing an accident. ■The following instructions must be followed during maintenance:

•Stop the air supply, exhaust the residual pressure and verify that the air is released before performing Otherwise an injury can result.

△ Caution

■When handling the unit or assembling/replacing units:

•Do not touch the sharp metal parts of the connector or plug for connecting units.

•Take care not to hit your hand when disassembling the unit.

The connecting portions of the unit are firmly joined with seals.

•When joining units, take care not to get fingers caught between units.

An injury can result.

After maintenance is complete, perform appropriate functional inspections Stop operation if the equipment does not function properly. Safety cannot be assured in the case of unexpected malfunction

■Provide grounding to assure noise resistance of the product. Individual grounding should be provided close to the product with a short cable

⚠ Caution

Notice:

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

[Limited warranty and Disclaimer]

1. The warranty period of the product is 1 year in service or 1.5 years after the product is

Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.

2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.

3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.

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•This product is a wireless unit in accordance with the Radio Act.

Be sure to comply with the following precautions.

•Do not disassemble or modify the product. Disassembly and modification are prohibited

- •This product is compliant with the Radio Act in Japan, European countries and the US. For use in other countries, please consult SMC. Refer to the product catalog or SMC website (URL https://www.smcworld.com) for the latest information.
- •This product communicates by radio waves, and the communication may stop instantaneously due to ambient environments and operating methods. SMC will not be responsible for any secondary failure which may cause an accident or damage to other
- •When several units are installed closely to each other, slight interference may occur due to the characteristics of the wireless product.
- •Do not use this product close to any equipment which may cause malfunction due to radio waves from this product.
- •The communication performance is affected by the ambient environment, so please perform the communication testing before use

SMC.

Doc. No.(JP) EX600-TF1W14EN

SUPPLIER'S DECLARATION OF CONFORMITY

Issumg rany SMC Corporation 4-14-1 Soto-Kanda, Chiyoda-ku, Tokyo 101-0021 Japan Telephone:+81-297-52-6665

Declares under its sole responsibility, that the following equipment:

Trade Name:SMC Wireless system

Model Numbers: EX600-WEN1. EX600-WEN2. EX600-WPN1,EX600-WPN2,EX600-WSV1,EX600-WSV2

These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) these devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

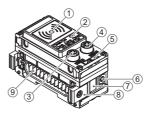
Responsible Party - U.S.Contact Information

SMC Corporation of America

10100 SMC Blvd, Noblesville, IN 46060, U.S.A. Phone: +1-317-899-4440

Date: 07/05/2018

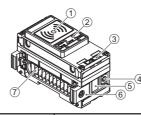
Summary of Product elements





No.	Item	Application
1	Area close to NFC antenna	This area is in close contact with the NFC reader/writer. "O" is the center of the NFC antenna.
2	Status indication LED	LED display to indicate the unit status.
3	Connector (PORT-1)	Fieldbus input/output cable connection.
4	Connector (PORT-2)	Fieldbus input/output cable connection.
5	Marker groove	Marker (EX600-ZT1) can be mounted.
6	Screw hole for valve plate mounting	For fixing the valve plate.
7	Valve plate mounting groove	Groove to insert the valve plate.
8	Joint bracket	Bracket for mounting adjacent units.
9	Unit connector (plug)	Transfers signals to the next unit and supplies power.
10	Seal cap (1 pc.)	To be mounted on unused connectors (PORT 1 or PORT 2).

Remote



No.	Item	Application
1	Area close to NFC antenna	This area is in close contact with the NFC reader/writer. "O" is the center of the NFC antenna.
2	Status indication LED	LED display to indicate the unit status.
3	Marker groove	Marker (EX600-ZT1) can be mounted.
4	Screw hole for valve plate mounting	For fixing the valve plate.
5	Valve plate mounting groove	Groove to insert the valve plate.
6	Joint bracket	Bracket for mounting adjacent units.
7	Unit connector (plug)	Transfers signals to the next unit and supplies power.

Assembly

OAssembling the unit as a manifold

(1) Connect the unit to the end plate. Digital and analogue units can be connected in any order Tighten the bracket of the joint using tightening torque 1.5 to 1.6 Nm.

(2) Add more units.

Up to 9 units can be connected to one manifold.

(3) Connecting the wireless unit. After connecting the required I/O units, connect the wireless unit. The connection method is as above.

(4) Mounting the valve plate. Mount the valve plate (EX600-ZMV#) to the valve manifold using the set screws. (M3 x 8) Apply 0.6 to 0.7 Nm tightening torque to the screws.

(5) Connect the wireless unit to the valve manifold. Insert the valve plate into the valve plate mounting groove on the side of the wireless unit, and then fix both surfaces of the plate using the valve plate mounting screws (M4 x 6) provided Tightening torque for set screws 0.7 to 0.8 Nm.



Mounting and Installation

■Installation

Direct mounting

- (1) When joining six or more units, fix the middle part of the complete EX600 unit with an intermediate reinforcing brace (EX600-ZMB1) before mounting using 2-M4 x 5 screws. Tightening torque: 0.7 to 0.8 Nm
- (2) Mount and tighten the end plate and the valve manifold (intermediate reinforcing brace if necessary) at one end of the unit. (M4) Tightening torque: 0.7 to 0.8 Nm Refer to the Operation Manual of the applicable valve manifold for the mounting method of the



•DIN rail mounting (Available for series other than SY series. Refer to the catalog for SY series.)

(1) When joining six or more units, fix the middle part of the complete EX600 unit with an intermediate reinforcing brace (EX600-ZMB2) for DIN rail before mounting, using 2-M4 x 6 screws

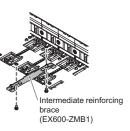
Tightening torque: 0.7 to 0.8 Nm

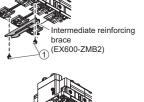
(2) Mount the end plate bracket (EX600-ZMA2) to the end plate using 2-M4 x 14 screws. Tightening torque: 0.7 to 0.8 Nm

(4) Press the manifold using its side hooked

to the DIN rail as a fulcrum until

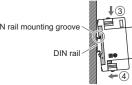
the manifold is locked.





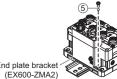
End plate bracket (EX600-ZMA2)

(3) Hook the DIN rail mounting groove on to the DIN rail.



(5) Fix the end plate bracket (EX600-ZMA2) to the manifold using the M4 x 20 screws provided with the product.

Tightening torque: 0.7 to 0.8 Nm Refer to the Operation Manual of the applicable valve manifold for the mounting method of the valve side.



The base is connected to the upper level communication (PROFINET). The connector has 2 ports, PORT-1 and PORT-2, and both ports can connect to PROFINET. The PROFINET topology corresponds to star, line, tree and ring.

Connector pin No.

M12.4 nin Socket D. code

■Connector (Base only)

M12 4-piii Socket, D-code					
Config	Pin No.	Signal name			
PORT-1	PORT-2	FIII NO.	Signal name		
1/5/2	1/5/2	1	TD+		
(<u>@</u> <u>9</u>)/	(<u>@</u> <u>@</u>)/	2	RD+		
(0 05)	(0 05)	3	TD-		
4 3	4 3	4	RD-		

PROFINET connector of base

■Power supply connector

•Connector pin No. (1) EX600-ED2-#

PWR IN: M12 5-pin Plug, B-code

WIN IIN. WITZ 3-pill Flug, b-code				
Configuration	Pin No.	Signal name		
	1	24 V (Output)		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2	0 V (Output)		
	3	24 V (Control and input)		
	4	0 V (Control and input)		
	5	FE		

(2) EX600-ED3-#

PWR IN: 7/8 inch 5-pin Plug

Configuration	Pin No.	Signal name
	1	0 V (Output)
01 50	2	0 V (Control and input)
	3	FE
O_{3}^{2}	4	24 V (Control and input)
	5	24 V (Output)

(3) EX600-ED4-#

PWR IN: M12 4-pin Plug, A-code

Configuration	Pin No.	Signal name
3 0 0 2 4 0 0 1	1	24 V (Control and input)
	2	24 V (Output)
	3	0 V (Control and input)
	4	0 V (Output)

(4) EX600-ED5-#

PWR IN: M12 4-pin Plug, A-co

Configuration	Pin No.	Signal name
	1	24 V (Output)
	2	0 V (Output)
$\begin{matrix} 3 & 0 & 0 \\ 4 & 0 & 0 \end{matrix}$	3	24 V (Control and input)
	4	0 V (Control and input)

PWR OUT: M12 5-pin Socket, A-code

Pin No.	Signal name			
1	24 V (Control and input)			
2	24 V (Output)			
3	0 V (Control and input)			
4	0 V (Output)			
5	Not used			
	1 2			

PWR OUT: M12 5-pin Socket, A-code

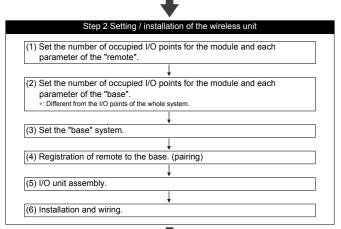
Configuration	Pin No.	Signal name
Corniguration	1 111140.	
	1	24 V (Output)
1 0 0 2 4 5 0 3	2	0 V (Output)
	3	24 V (Control and input)
	4	0 V (Control and input)
	5	Not used

Refer to the SMC website (URL https://www.smcworld.com) to obtain more detailed information about end plate.

Setting and Adjustment

■Flow chart for using the wireless system

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Step 1 Preparation before use (PC, Application)	
(1) Install the NFC reader, writer and driver.	1
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(2) Install the I/O Configurator for NFC.]
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Step 3 Connection to P

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

With the above settings, it is possible to control the upper level controller. Refer to the operation manual for each manufacturer for how to set the controller and the PLC.

Refer to the I/O Configurator for NFC operation manual and I/O Configurator (Web) operation manual for details of the I/O Configurator.

LED Display

■LED indication of base



LED indication of base

LED indication of base

PWR Power supply voltage (US1+US2) Power supply voltage for control and input (US1) is normal. Green LED flashes. Power supply voltage for cutput (US2) is abnormal. (power supply voltage for cutput (US2) is abnormal. (power supply voltage for cutput (US1) is abnormal. (power supply voltage for cutput (US1) is abnormal. (power supply voltage for control and input (US1) is abnormal. (power supply voltage for control and input (US1) is not supplied. OFF Power supply voltage for control and input (US1) is not supplied. Green LED flashes. Node flashing test command received. Restorable error is defected. (LED flashes when more than one diagnostic informatic item is detected.) **Abnormal power supply voltage level for control and in (US1) (power supply voltage monitor (Control/Input) is valid) -**Abnormal power supply voltage level for control and in (US1) (power supply voltage monitor (Control/Input) is valid) -**Abnormal power supply voltage level for control and in (US1) (power supply voltage monitor (Control/Input) is valid) -**Abnormal power supply voltage level for control and in (US1) (power supply voltage monitor (Control/Input) is valid) -**Abnormal power supply voltage level for control and in (US1) (power supply voltage monitor (Control/Input) is valid) -**Abnormal power supply voltage level for control (US1) -**Abnormal power supply voltage level for control (US1) -**Abnormal power supply voltage level for control (US2) -**Abnormal number of remote connections -**Analogue input are gover supply voltage level for control and in (US1) -**CROFINET controller ower supply voltage level for control and in (US1) -**CROFINET controller ower supply voltage level for control ower supply v	PWR P(L	Power supply voltage	Green LED is ON. Green LED flashes. Red LED flashes. OFF	Power supply voltage for control and input (US1) is normal. Power supply voltage for output (US2) is normal. Power supply voltage for control and input (US1) is normal. Power supply voltage for output (US2) is abnormal. (power supply voltage monitor (Output) is valid) Power supply voltage for control and input (US1) is abnormal. (power supply voltage monitor (Control/Input) is valid) Power supply voltage for control and input (US1) is not
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BF PROFINET connection status Red LED is ON. PROFINET controller power supply is OFF -Cable connection error between PROFINET controller power supply is OFF -Cable connection error between PROFINET controller obase are faulty -PROFINET controller or the base are faulty -PROFINET controller settings and base Device name in not match on the match of more remote to base) W-SS (Green LED is ON. Received power level of all remote is 3. Green LED flashes. (11tz) Green LED flashes. (12tz) From LED flashes. (12tz) Green LED flashes. No remote connected remote with received power level (2tz) From LED flashes. No remote connected. OFF Remote is not registered. Green LED flashes. There are unconnected correctly. Green LED flashes. All remote are unconnected. Red LED flashes. All remote are unconnected. Red LED flashes. All remote are unconnected. Red LED is ON. All remote are unconnected. Red LED is ON. Forced output mode. OFF Remote is not registered. Red LED is ON. Forced output mode. Green LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) -Abnormal power supply voltage level for output (US2) -Abnormal power supply voltage level for output (US2) -Abnormal power supply voltage level for output (US2)	W-SS (Find			· -
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W-SS Radio wave receiving intensity (For communication from remote to base) W-SS Wireless communication connection status Red LED flashes. All remote are unconnected. (Incon-restorable error in wireless communication) Wireless communication connection is under construction. Red/Green Wireless communication connection is under construction. Red LED is ON. Remote is not registered. Remote is not remote at unconnected. Remote is not remote at unconnected. Remote is not remote at unconn	W-SS in (F fr		Red LED is ON.	PROFINET controller power supply is OFF Cable connection error between PROFINET controller and base PROFINET controller or the base are faulty PROFINET controller settings and base Device name do
Radio wave receiving intensity (For communication from remote to base) W-SS Wireless communication connection status Red LED flashes. All remote are unconnected. All remote are unconnected. (Incon-restorable error in wireless communication) Wireless communication connection is under construction. Wireless communication connection is under construction. OFF Remote is not registered. Green LED is ON. Remote is not registered. Restorable error is detected. (LED flashes when more than one diagnostic informatic them is detected.) *Abnormal power supply voltage level for output (US2) *Abnormal power supply voltage level for output (US2) *Abnormal power supply voltage level for output (US2)	W-SS in (F fr		Green LED is ON.	Received power level of all remote is 3.
W-SS (For communication from remote to base) Red LED flashes. No remote connected. OFF Remote is not registered. Green LED is ON. All remote are unconnected correctly. Green LED flashes. There are unconnected correctly. Green LED flashes. There are unconnected correctly. Green LED flashes. There are unconnected remote. Red LED flashes. All remote are unconnected. (non-restorable error in wireless communication connection status Wireless communication Connection status Wireless communication connection is under construction. Red/Green Wireless communication connection is under construction. Red/Green (Pairing) Orange LED is ON. Forced output mode. Green LED is ON. Remote is nor registered. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) "Abnormal power supply voltage level for output (US2) Part LED flashes. Abnormal power supply voltage level for output (US2)	W-SS (F			There are connected remote with received power level 2.
Wireless communication connection status Red LED is ON. Red LED is ON. Red LED is ON. Red LED is ON. Wireless communication connected. (non-restorable error in wireless communication) Wireless communication connection is under constructi (Pairing) Orange LED is ON. Forced output mode. OFF Remote is not registered. Red LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) *Abnormal power supply voltage level for control and in (US1) Red LED flashes *Abnormal power supply voltage level for output (US2)	W-NS co	(For communication		There are connected remote with received power level 1.
Wireless communication connection status Wireless Connection status Wireless Connection status Wireless Connection status Wireless Connection status Red LED is ON. Red/Green Red LED is ON. Red/Green Wireless communication connection is under constructi (pairing) Orange LED is ON. Forced output mode. OFF Remote are unconnected. Wireless communication connection is under constructi (pairing) Orange LED is ON. Forced output mode. Green LED is ON. Remote is not registered. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) *Abnormal power supply voltage level for control and in (US1) *Abnormal power supply voltage level for output (US2)	W-NS co		Red LED flashes.	No remote connected.
Green LED is ON. All remote are connected correctly. Green LED flashes. There are unconnected remote. Red LED flashes. All remote are unconnected. Red LED flashes. All remote are unconnected. Red LED is ON. All remote are unconnected. Red LED is ON. All remote are unconnected. (non-restorable error in wireless communication) Wireless communication connection is under constructive (Pairing) Orange LED is ON. Forced output mode. OFF Remote is not registered. Green LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic information than 10 the properties of the detected.) Abnormal power supply voltage level for control and in (US1) Red LED flashes.	W-NS co		OFF	Remote is not registered.
Wireless communication connection status Red LED is ON. All remote are unconnected. Red JED is ON. All remote are unconnected. Red JED is ON. All remote are unconnected. Red JED is ON. All remote are unconnected. (non-restorable error in wireless communication) Wireless communication connection is under construction or sunder constructi	W-NS co		Green LED is ON.	-
Wireless communication connection status Red LED is ON. Red/Green (Pairing) Orange LED is ON. Forced output mode. Green LED is ON. Remote is not registered. Green LED is ON. Remote is normal. Restorable error in wireless communication connection is under construction (Pairing) Orange LED is ON. Forced output mode. Green LED is ON. Remote is not registered. Restorable error is detected. (LED flashes when more than one diagnostic information item is detected.) *Abnormal power supply voltage level for control and in (US1) Red LED flashes. *Abnormal power supply voltage level for output (US2)	W-NS co	S communication	Green LED flashes.	There are unconnected remote.
W-NS communication connection status Red/Green Wireless communication connection is under construction Red/Green Wireless communication connection is under construction Parage LED is ON. Forced output mode. OFF Remote is not registered. Green LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic information item is detected.) -Abnormal power supply voltage level for control and in (US1) Red LED flashes Parage Parage	W-NS co		Red LED flashes.	All remote are unconnected.
Red/Green Wireless communication connection is under constructi (Pairing) Orange LED is ON. Forced output mode. OFF Remote is not registered. Green LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) *Abnormal power supply voltage level for control and in (US1) Red LED flashes *Abnormal power supply voltage level for output (US2)	CC		Red LED is ON.	
OFF Remote is not registered. Green LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) -Abnormal power supply voltage level for control and in (US1) Red LED flashes *Abnormal power supply voltage level for output (US2)			Red/Green	Wireless communication connection is under construction. (Pairing)
Green LED is ON. Remote is normal. Restorable error is detected. (LED flashes when more than one diagnostic informatic item is detected.) -Abnormal power supply voltage level for control and in (US1) Red LED flashes -Abnormal power supply voltage level for output (US2)			Orange LED is ON.	Forced output mode.
Restorable error is detected. (LED flashes when more than one diagnostic informatio item is detected.) -Abnormal power supply voltage level for control and in (US1) Red LED flashes -Abnormal power supply voltage level for output (US2)			OFF	Remote is not registered.
(LED flashes when more than one diagnostic informatic item is detected.) -Abnormal power supply voltage level for control and in (US1) -Bed LED flashes -Abnormal power supply voltage level for output (US2)			Green LED is ON.	Remote is normal.
W-MS Remote connection system status *Excessive I/O setting inputs/outputs - *Excessive I/O setting inputs/outputs - *Analogue I/O upper and lower set limit exceeded - *Analogue input range upper and lower limit exceeded - *Error in communication between units - *EX600 I/O unit detects diagnostic information - *Valve diagnostic information detected				(LED flashes when more than one diagnostic information item is detected.) *Abnormal power supply voltage level for control and input (US1) *Abnormal power supply voltage level for output (US2)
Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure		Remote connection system status	Red LED flashes.	Analogue I/O upper and lower set limit exceeded Analogue input range upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information
OFF No remote connected.				Analogue I/O upper and lower set limit exceeded Analogue input range upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information
LINK/ACT1 Communication Green LED is ON. Link, No Activity			Red LED is ON.	Analogue I/O upper and lower set limit exceeded Analogue input range upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected Non-restorable error is detected. (e.g. Hardware failure)
status of PROFINET Green LED flashes. Link, Activity		system status Communication	Red LED is ON. OFF Green LED is ON.	-Analogue I/O upper and lower set limit exceeded -Analogue input range upper and lower limit exceeded -Error in communication between units -EX600 I/O unit detects diagnostic information -Valve diagnostic information detected Non-restorable error is detected. (e.g. Hardware failure) No remote connected. Link, No Activity
LINK/ACT2 ports 1 and 2 OFF No Link, No Activity		communication status of PROFINET	Red LED is ON. OFF Green LED is ON. Green LED flashes.	-Analogue I/O upper and lower set limit exceeded -Analogue input range upper and lower limit exceeded -Error in communication between units -EX600 I/O unit detects diagnostic information -Valve diagnostic information detected Non-restorable error is detected. (e.g. Hardware failure) No remote connected. Link, No Activity Link, Activity

^{*:} If there are multiple conditions for LED ON/Flashing, the detailed information can be seen only when the setting of

■LED indication of remote



LED indication of remote

•LED Indication of remote

	l	Green LED is ON.	Power supply voltage for output (US2) is normal.
PWR(V)	Power supply voltage for output (US2)	Red LED flashes.	Power supply voltage for output (US2) is abnormal. (Indication only. The product can be operated.) (power supply voltage monitor (Output) is valid)
		OFF	Power supply for control and input (US1) is not supplied.
		Green LED is ON.	Received power level is 3.
	Radio wave receiving	Green LED flashes. (1Hz)	Received power level is 2.
W-SS	intensity (For communication from base to remote)	Green LED flashes. (2Hz)	Received power level is 1.
	,	Red LED flashes.	Wireless communication is not connected.
		OFF	Base is not registered.
		Green LED is ON.	Remote is connected correctly.
		Red LED flashes.	No remote connected.
W-NS	Wireless communication connection status	Red LED is ON.	No remote connected. (non-restorable error in wireless communication)
W-NS		Red/Green	Wireless communication connection is under construction. (Pairing)
		Orange LED is ON.	Forced output mode.
		OFF	Base is not registered.
		Green LED is ON.	Remote is normal.
MS	Remote system status	Red LED flashes.	Restorable error is detected. (LED flashes when more than one diagnostic information item is detected.) -Abnormal power supply voltage level for control and input (US1) (power supply voltage monitor (Control/Input) is valid) -Excessive I/O setting inputs/outputs -Analogue I/O upper and lower set limit exceeded -Analogue input range upper and lower limit exceeded -Error in communication between units -EX600 I/O unit detects diagnostic information -Valve diagnostic information detected
		Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
		OFF	Power supply for control and input (US1) is not supplied.

^{*:} If there are multiple conditions for LED ON/Flashing, the detailed information can be seen only when the setting of the diagnostic information is "Simple" or "Detailed".

Refer to the SMC website (URL https://www.smcworld.com) to obtain more detailed information about LED display.

Maintenance

•Maintenance should be performed according to the Safety Instructions.

Perform regular maintenance and inspections.

There is a risk of unexpected malfunction.

•Do not use solvents such as benzene, thinner etc. to clean each unit.

They could damage the surface of the body and erase the markings on the body. Use a soft cloth to remove stains.

For heavy stains, use a cloth soaked with diluted neutral detergent and fully squeezed, then wipe up the stains again with a dry cloth.

Refer to the SMC website (URL $\underline{\text{https://www.smcworld.com}}$) to obtain more detailed information about maintenance.

Troubleshooting

Refer to the LED Display. Refer to the SMC website (URL https://www.smcworld.com) to obtain more detailed information about troubleshooting.

Specification

Remote (EX600-WSV#) can be used regardless of the communication specification of the base

Refer to the product catalog or SMC website (URL https://www.smcworld.com) to obtain more detailed information about product specifications.

Commissioning

•Parameter Setting

•Hardware Configuration (GSDML file)

/O Map

Refer to the SMC website (URL https://www.smcworld.com) to obtain more detailed information about these setting above.

Diagnostic

Refer to the SMC website (URL $\underline{\text{https://www.smcworld.com}}$) to obtain more detailed information about diagnostic.

Outline with Dimensions

Refer to the product catalog or SMC website (URL https://www.smcworld.com) to obtain more detailed information about outline dimensions.

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Note: Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

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