

Before Use

Wireless Adaptor

EXW1-A11N-X1



Thank you for purchasing an SMC EXW1-A11N-X1 Wireless Adaptor. Please read this manual carefully before operating the product and make sure you understand its capabilities and limitations. Please keep this manual handy for future reference.

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 regulations.

- Caution:** CAUTION indicates a hazard with a low level of risk which, if 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 hazard with a high level of risk which, if not avoided, will result in death or serious injury.

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
<ul style="list-style-type: none"> ■ 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. Do not use for flammable or harmful fluids. 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. Fire or an explosion can result. This product is not designed to be explosion proof. ■ If using the product in an interlocking circuit: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Turn off the power supply. • Stop the air supply, exhaust the residual pressure and verify that the air is released before performing maintenance. • Otherwise an injury can result.
Caution
<ul style="list-style-type: none"> ■ When handling the unit or assembling/replacing units: <ul style="list-style-type: none"> • 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
<p>Note:</p> <p>Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.</p> <p>NOTE:</p> <p>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. 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.</p>

NOTE

- The power is supplied from the circuit reinforced or double-insulated from MAINS.
- The direct current power supply used should be UL approved as follows: UL1310 Class 2 power supply unit or UL61010-1 LIM (Limited Energy Circuit).
- All external circuits should also be connected to a circuit that is reinforced or double-insulated from the MAINS and free from risk of electric shock and fire hazard.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Limited warranty and Disclaimer

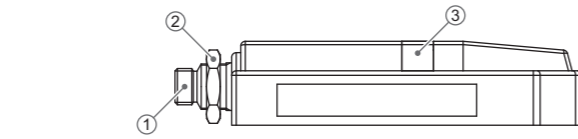
1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the 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.

Important

- 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 by law.
 - 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 devices or equipment.
 - When several units are installed closely to each other, slight interference may occur due to the characteristics of the wireless product.
- Radio waves emitted by this product may adversely affect implantable medical devices such as implantable cardiac pacemakers and brillators. For precautions regarding the use of equipment or devices that may adversely affect performance, refer to the catalog or instruction manuals for the equipment or devices, or contact the manufacturers directly.
- The communication performance is affected by the ambient environment, so please perform the communication testing before use.

Summary of Product parts

Wireless Adaptor



No.	Item	Description
1	Connector	M8 connector for cable to Air Management Hub.
2	Nut	For fixing to Air Management Hub.
3	LED display	Indicates the status of the adaptor.

Caution
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

CAUTION:
Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
FCC ID: 2AJE7SMC-WEX08

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.
This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions (antennas are greater than 20 cm from a person's body).

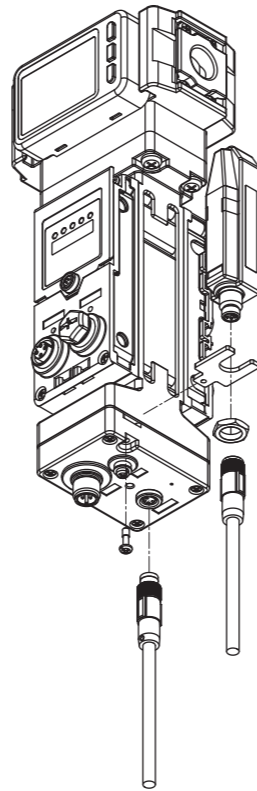
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
1) L'appareil ne doit pas produire de brouillage;
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Innovation, Sciences et Développement économique Canada. Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.
Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (antennes sont supérieures à 20 cm à partir du corps d'une personne).

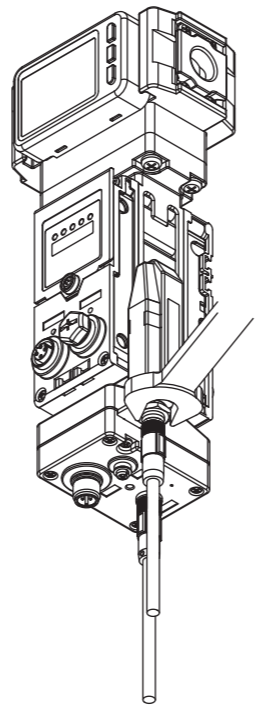
Mounting and Installation

Mounting

Mount the wireless adaptor bracket to the Air Management Hub using the screw attached to the Air Management Hub. (Recommended torque: 0.3±10% N·m)
Then attach the cable EXW1-AC1-X1 to the wireless adaptor and Air Management Hub.



Mount the adaptor to the bracket of the Air Management Hub using the M10 nut already installed to the wireless adaptor. (Recommended torque: 0.9 ±10% N·m)



Caution

The EXW1-AC1-X1 which is the optional cable should be used for connection to the Air Management Hub. Please use cables specifically designed for the Wireless Adaptor. The EXW1-AC1-X1 is not UL/cUL certified.

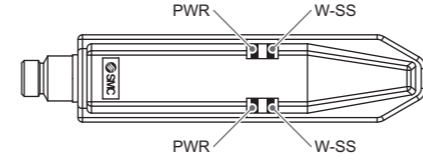
Connector

Connector pin No.

No.	Signal	M8 4-pin plug	
		A-coded	
1	24 V (US1)	2	4
2	Internal Bus B	3	1
3	0 V (US1)	1	3
4	Internal Bus A	4	2

LED Display

The LED indicators on the wireless adaptor indicate the power supply, communication and diagnostic status.



LED	LED Color	Operation
PWR	Green LED ON	US1 (for control) power supply is ON.
	Orange LED flashing	Internal Bus error is detected.
	Red LED ON	Unrecoverable error is detected.
W-SS	OFF	US1 (for control) power supply is OFF.
	Green LED ON	The level of received radio wave power is 3.
	Green LED flashing (1 Hz)	The level of received radio wave power is 2.
W-SS	Green LED flashing (2 Hz)	The level of received radio wave power is 1.
	Orange LED flashing	No Remotes are connected.
	OFF	Air Management Hub is not registered.

Environment

Item	Details
Operating temperature	0 to 50 °C (No condensation or freezing)
Ambient humidity	35 to 85%RH
Altitude	Up to 3000 m
Current Consumption	50 mA
Pollution Degree	3
Installation place	Indoor

Specification

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

Outline with Dimensions

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

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 <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.

Diagnostic

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

Certified Countries

Certificate EXW1-A1

FCC ID: 2AJE7SMC-WEX08 IC ID: 21344-WEX08

U.S.	Canada
Europe	Japan
UK	R
020-220137	
Complies with IMDA standards N4921-22	85383/SDPPI/2022 7893
Singapore	Australia
Indonesia	
TA-2022/2596 APPROVED	
R-R-OZK-A1	
Vietnam	Korea
South Africa	
TA-2022/2596 APPROVED	
Taiwan	
TDR	
UAE	
Thailand	
Brazil	

Other certified countries

New Zealand
Philippines
India
Saudi Arabia
Myanmar
Bangladesh
Colombia

Refer to the SMC website (URL <https://www.smcworld.com>) to obtain the latest information.

Contacts

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