

WISE IORE

Input Output Radio Extender



QUICK FACTS

- WISE IORE is a unit that can control products in Swegon's indoor climate system WISE that do not have integrated radio communication.
- WISE IORE is used for reading condensation sensor data and controlling actuators and third-party products.
- Waterborne climate products are easily integrated in the WISE system with the help of a factory-fitted WISE IORE.

Technical description

Design

WISE IORE is a unit that can control products in the system without its own radio communication.

- Two analogue or two digital outputs for actuators. The total power consumption must not be exceeded 18 VA
- Input, 0-10 V DC
- Input to connect a condensation sensor CG-IV

Function

WISE IORE is a unit that can control and receive signals from sensors on products that do not have integrated radio communications. For example, WISE IORE can be installed on a wall next to a radiator to control the heating actuator.

WISE IORE is also available factory fitted on waterborne climate products that do not have WISE CU integrated, such as Pacific, Adriatic, Primo etc., which permits the WISE system to integrate traditional climate beams in addition to WISE Parasol. WISE IORE can control heating and cooling actuators as well as receive signals from the condensation sensor.

WISE IORE can also receive signals from third-party products. For further information contact customer support.

Materials and surface treatment

The front-piece is made of PC and the back-piece of PP.

Colour of the front-piece is white NCS S1002-Y and the colour of the back-piece is grey, NCS S5500-N.

Installation

WISE IORE is installed close to or on the product it should control, see figure 1, 2 and 4. Also see the separate Instructions for Use that can be downloaded from www.swegon.com.

Commissioning

Use TuneWISE for commissioning. Commissioning must be performed by qualified and trained WISE service engineers.

Maintenance

If necessary, use a dry cloth when cleaning. Never use water, detergent, cleaning solvent or a vacuum cleaner.

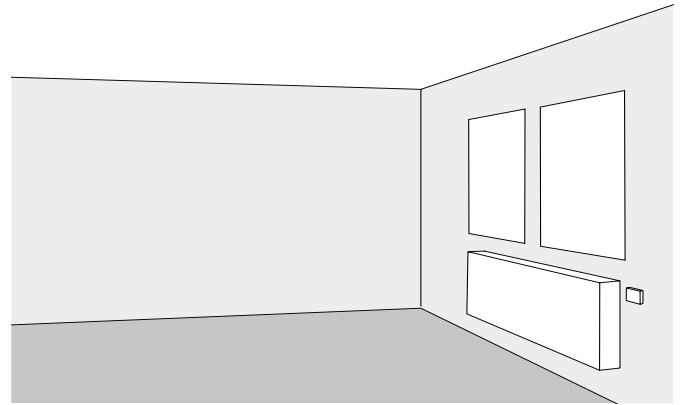


Figure 1. Example of WISE IORE placement when installing close to radiators.

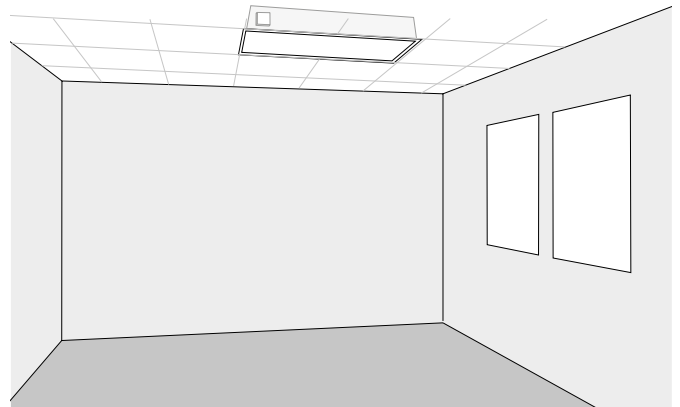


Figure 2. Placement of WISE IORE, installed on a waterborne product without radio communications.

Technical data

Power supply:	24 V AC ±10% 50-60 Hz, 15-30 V DC
Max. power consumption:	25 VA
Max. power output:	18 VA
Glass fuse:	Cartridge Fuses 250V 2A Time Lag (Slo-Blo)
Cable rating, connector:	Max. 1.5 mm ² , push-in spring force connection
External input:	Input, 0-10 V DC
External outputs	
Cooling:	Output, 0-10 V or 24 V DC
Heating:	Output, 0-10 V or 24 V DC
Frequency band:	2.45 GHz IMS band (2400--2483 MHz)
Output (ERP):	50 mW
Range of measurement	
Condensation:	Detection 500 kOhm, off at 900 kOhm
IP class:	IP20
Ambient temperature	
Operation:	0 – + 55 °C
Storage:	-30 – +80 °C
RH:	10 – 95% non-condensing

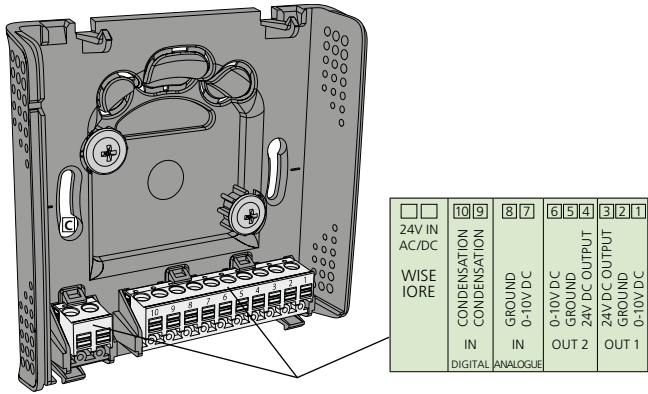


Figure 3. Back-piece
The back-piece can be installed on a wall or in a junction box. The back-piece is prepared with knock-outs for cable entry.

LED - Explanation

Not paired

	Colour	Type
Energized	White	Permanent
Selected in TuneWISE	White	Flashing, fast
Prepared to be added to the system	White	Flashing, slowly
To be added to the system	White	Flashing, fast for 5 s

Paired

	Colour	Type
Normal operation	Green	Permanent
Restart	Blue	Permanent for 10 s
Initiation	Blue	Flashing
Air commissioning	Orange	Permanent
Water commissioning	Violet	Permanent
Commissioning air/water	Orange/Violet	Alternating
Emergency mode	Green/Red	Alternating
Service mode	Blue	Short flash every 5 s

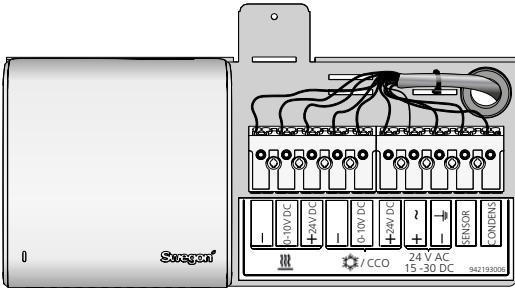


Figure 4. When WISE IORE is ordered factory fitted on a water-borne climate product, it is supplied with WISE IORE mounted and connected on a control plate. It then only remains to connect the selected accessory on the terminal block. See the separate connection instruction for each product.

Dimensions and weights Ordering key

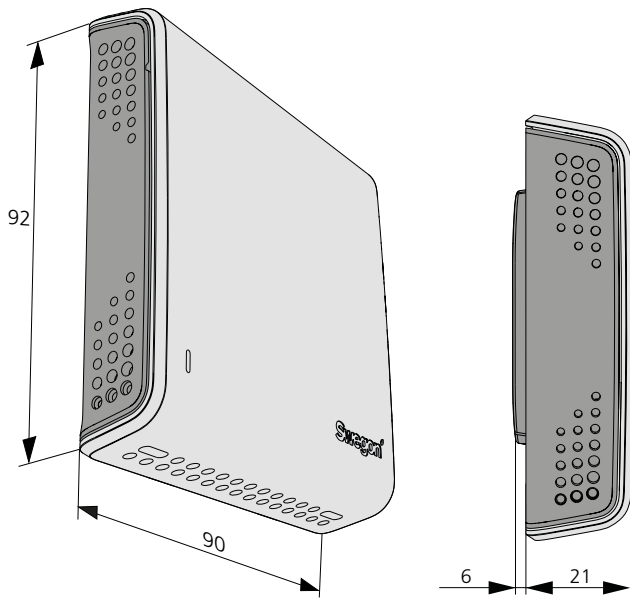


Figure 5. Dimensions, WISE IORE.

Product

Unit

WISE IORE a

Version:

Specification text

Example of a specification text according to VVS AMA.

GI XX

Swegon's WISE IORE unit with the following functions:

- Factory-fitted WISE IORE for integration of waterborne products without radio communications.
- WISE IORE has two digital outputs or two analogue outputs for control of actuators. The total power consumption must not be exceeded 18 VA.
- WISE IORE has inputs for condensation sensors.

Type:

WISE IOREa

xx items

Weight (kg)
0.11