

WISE IRE

Input Radio Extender



QUICK FACTS

- Can receive analogue/digital signal from transducers/sensors within Swegon's indoor climate system WISE that do not have integrated radio communication.
- Can be used as communications bridge.

Technical description

Design

WISE IRE is a control unit that can receive analogue/digital signal from transducers/sensors within Swegon's indoor climate system WISE that do not have integrated radio communication. The unit communicates wirelessly and is powered by 24V AC/DC or 3.6 V Lithium battery. If the unit is powered by a battery it only acts as a transmitter, with a 24V supply it can also receive data and is used as a communication bridge. When two nodes have limited radio communications, WISE IRE is placed between these and boosts communications.

Materials and surface treatment

Plastic enclosure in PP.

The front-piece of the enclosure is finished in grey NCS S5500-N.

Installation

WISE IRE is mounted in a junction box, see figure 1.

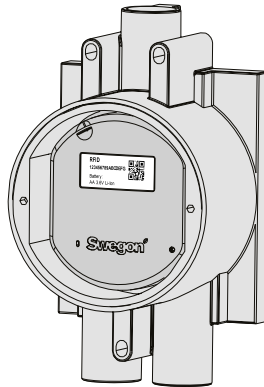


Figure 1. Install in a junction box.

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.

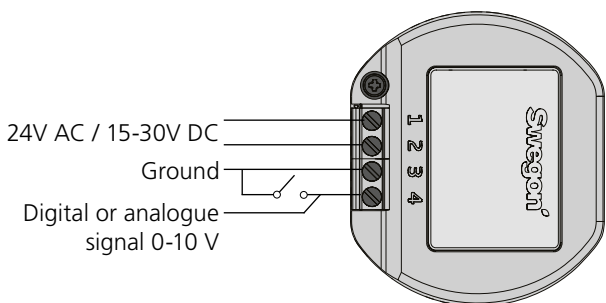
Environment

The Building Materials Declaration is available from www.swegon.com.

Technical data

Power supply:	24 V AC ±10% 50-60 Hz, 15-30 V DC
Max. power consumption:	1 VA
Battery:	1 of the type AA, LiSOCl ₂ of 3.6 V (Li)
Cable rating, connector:	Screw terminal max. 1.5mm ²
External input:	1 digital (open/close) or analogue 0-10V DC
Frequency band:	2.45 GHz IMS band (2400--2483 MHz)
Output (ERP):	50 mW
IP class:	IP20
Ambient temperature	
Operation:	0 – + 55°C
Storage:	-40 – +80°C
RH:	10 – 95% non-condensing

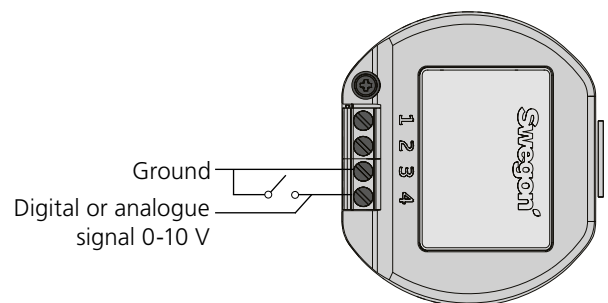
Connection for the external supply voltage



1. Connection of the power supply G0 0V AC / -0V DC
2. Connection of the power supply G 24V AC / +15-30V DC
3. Ground
4. Digital or analogue signal 0-10 V

NOTE! Terminals 1 and 3 are connected inside WISE IRE. It is important to check the connection of the power supply so that the potential on the ground is correct.

Connection for supply voltage via battery



1. Not used for battery supply
2. Not used for battery supply
3. Ground
4. Digital eller analog signal 0-10V

Figure 2. Electrical connection WISE IRE.

Dimensions and weights

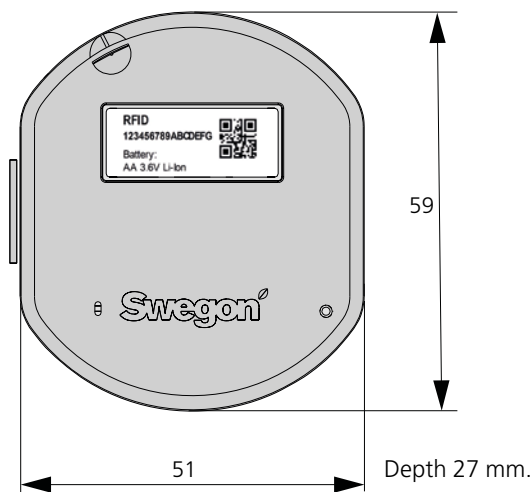


Figure 3. Dimensions, WISE IRE.

Weight (kg)	
Without battery 0.040	With battery 0.058

Ordering key

Product

Unit WISE IRE a bbbb bbbbbb
Version:

Unit with battery = incl Battery
Unit without battery = excl Battery

Accessories

Battery, 1 pcs. BatteriAA 3.6 V

Specification text

Example of a specification text according to VVS AMA.

SGC Input module

Swegon's room unit for digital or analogue inputs of the type WISE IRE with the following functions:

- Built-in communication unit for communication in Swegon WISE radio network.
- Adapted for mounting in a junction box.
- The module indicates digital or analogue signal 0-10 V to the Swegon WISE system.

Type: WISE IRE a xx items