

WISE IRT

Temperature sensor - Infra Red Temperature Sensor



QUICK FACTS

- Wireless temperature sensor for wall mounting.
- Equipped with temperature sensor that measures the air temperature in the room and one IR sensor that measures the surface temperature on e.g. the floor.

Technical description

Design

Temperature sensor for wall mounting with integrated radio transmitter, designed for use in Swegon's indoor climate system WISE.

Function

The sensor measures the temperature in the room with integrated temperature sensor and the surface temperature of e.g. floors with the help of IR.

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 back-piece is grey, NCS S5500-N. For other colours, please contact Swegon.

Installation

Ideally WISE IRT is installed between 0.5 to 1.5 m above the floor, close to the wall.

No objects may block the detection area, see figure 2.

Place the temperature sensor so it is not exposed to sunlight or draught as this can result in an incorrect temperature reading.

Also see the separate Instructions for Use which is supplied on delivery, but can also 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.

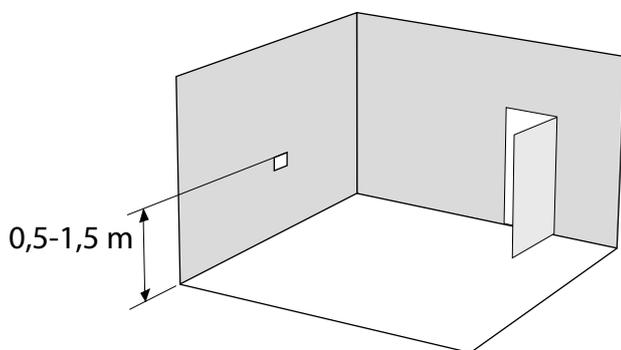


Figure 1. Placement of WISE IRT.

Technical data

Power supply:	24 V AC $\pm 10\%$ 50-60 Hz, 15-30 V DC
Max. power consumption:	5 VA
Battery:	1 of the type AA, LiSOCl ₂ of 3.6 V (Li)
Glass fuse:	Cartridge Fuses 250V 0.5A Time Lag (Slo-Blo)
Cable rating, connector:	Max. 1.5 mm ² , push-in spring force connection
Frequency band:	2.45 GHz IMS band (2400--2483 MHz)
Output (ERP):	50 mW
Range of measurement	
Temperature:	0 – 50°C $\pm 0.5^\circ\text{C}$
IP class:	IP20
Material:	Front-piece: PC, Back-piece: PP
Colour:	Front-piece: NCS S1002-Y, Back-piece: NCS S5500-N
Ambient temperature	
Operation:	0 – + 55°C
Storage:	-40 – +80°C
RH:	10 – 95% non-condensing

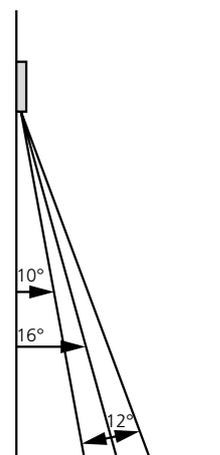


Figure 2. Detection range.

Dimensions and weights Ordering key

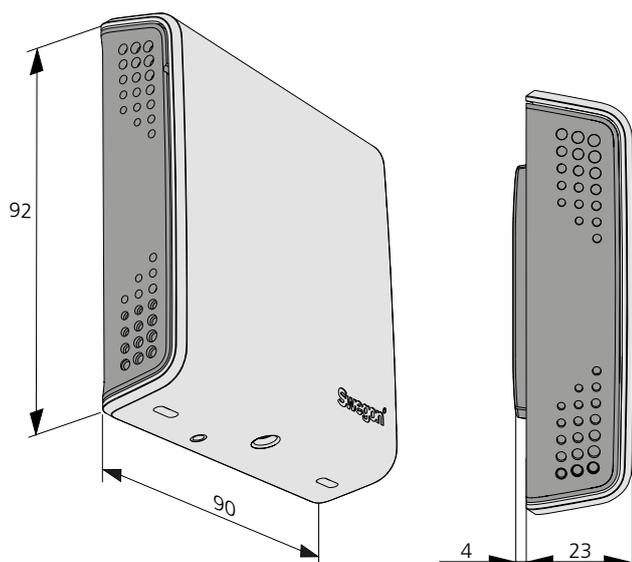


Figure 3. Dimensions, WISE IRT.

Weight (kg)	
Without battery	With battery
0.093	0.111

Product

Temperature sensor WISE IRT a bbbb bbbbbb

Version:

Unit with battery = incl Battery

Unit without battery = excl Battery

Accessories

Battery, 1 pcs. Battery AA 3.6 V

WISE IRT requires one battery for battery operation

Specification text

Example of a specification text according to VVS AMA.

GI XX

Swegon's temperature sensor type WISE IRT with the following functions:

- Temperature measurement
- Measurement of surface temperature with IR sensors
- Wireless communication
- Battery operation up to 5 years or 24 V AC power supply

Type: WISE IRTa excl Battery xx items