

# IQRF sensor SE02-T/H

## IQAROS indoor sensor of temperature and relative humidity

### Description

IQRF sensor SE02-T/H is a temperature and relative humidity sensor intended for IQRF wireless 3D monitoring system [IQAROS](#). It observes the [IQRF Standard sensor](#) specification.

### Key features

- IQRF wireless Mesh connectivity
- [Beaming sensor](#) allowing data collection by [Aggregating](#) repeaters
- Reed contact controlled by magnet for checking repeater(s) accessibility
- Extra low power, battery operated. Battery lifetime 3 years typical.
- Indoor, to be mounted on the wall or put on the stand

### Purpose

- Temperature and humidity monitoring in an indoor environment

### Applications

- IQRF wireless 3D temperature and humidity monitoring system [IQAROS](#)
- Monitoring of buildings, rooms, laboratory conditions, etc.
- Smart house, Internet of Things



### Technical specifications

#### Typical values (until otherwise specified)

Power supply	Coin battery CR2450, 3 V, 550 mAh, non-rechargeable, replaceable. Estimated lifetime 3 years.
RF connectivity	IQRF wireless Mesh
RF band	868 MHz (916 MHz on request)
RF range	Tens of meters in buildings (depends on the environment and obstacles) Up to 350 m in free space
Beaming period	The sensor transmits the measured values once per minute.
Temperature	Without hoar-frost
Range	0 °C to +40 °C
Resolution	0.0625 °C
Accuracy	Typical $\pm 0.2$ °C (0 °C to +70 °C), from $\pm 0.25$ °C to $\pm 0.2$ °C (-20 °C to 0 °C) Maximal $\pm 0.4$ °C (-20 °C to +70 °C)
Relative humidity	0 % to 95 %, without condensation
Resolution	0.5 %
Accuracy	$\pm 2$ %
Long-term drift	0.25 % / year
Ingress protection	IP40
Enclosure	Plastic
Dimensions	Body 66 mm x 66 mm x 7.2 mm, base 66 mm x 66 mm x 11 mm
Mechanical attachment to the base	By neodymium magnets, put on the stand or hung on a wall
Weight	Body 38 g, base 12 g