# 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 ± 0.2 °C (0 °C to +70 °C), from ± 0.25 °C to ± 0.2 °C (-20 °C to 0 °C) Maximal ± 0.4 °C (-20 °C to +70 °C) |
| Relative humidity | 0 % to 95 %, without condensation |
| Resolution | 0.5 % |
| Accuracy | ±2 % |
| Long-term drift | 0.25 % / year |
| Ingress protection | IP40 |
| Enclosure | Plastic |
| Dimensions | Body 66 mm x 66 mm x 13.8 mm, base 66 mm x 66 mm x 3.5 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 |