

# SENSOR INDUSTRIAL

## IQAROS Temperature and humidity sensor

### Description

SENSOR INDUSTRIAL is a temperature and relative humidity sensor intended for IQRF wireless 3D monitoring system IQAROS. It observes the IQRF Standard sensor specification.

### Key features

- Indoor, with internal sensors behind the semi-permeable membrane
- IQRF wireless Mesh connectivity
- Extra low power, battery operated. Battery lifetime 10 years typical.
- [Beaming sensor](#) supporting data collection by Aggregating repeaters

### Purpose

- Temperature and humidity monitoring in indoor industrial environment

### Applications

- IQRF wireless 3D temperature and humidity monitoring system IQAROS
- Monitoring of buildings, warehouses, laboratory conditions, etc.
- Smart house, Internet of Things



### Technical specifications

#### Typical values (until otherwise specified)

Power supply	Battery AA 3.6 V, 2400 mAh, life time 10 years typical, 7 years guaranteed (if the conditions for operating are observed).
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 400 m in free space
Temperature	Without hoar-frost and condensation
Range	0 °C to +45 °C (battery lifetime 7 years guaranteed) -20 °C to +70 °C (battery lifetime not guaranteed)
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	Without hoar-frost and condensation
Resolution	0.5 %
Accuracy	±2 %
Long term drift	0.25 % / year
Ingress protection	IP40
Main unit enclosure size	64 mm x 58 mm x 35 mm body, 94 mm x 58 mm x 35 mm total
Weight	105 g