



Sensor Industrial X

IQAROS Temperature sensor

Description

IQD-SE03-03 (sensor Industrial X) is a temperature sensor intended for IQRF wireless 3D temperature monitoring system IQAROS. It observes the IQRF Standard sensor specification.

Key features

- Outdoor, with the sensor unit connected via a cable
- · IQRF wireless Mesh connectivity
- Extra low power, battery operated. Battery lifetime 10 years typical.
- Beaming sensor supporting data collection by Aggregating repeaters

Purpose

Temperature monitoring in an outdoor industrial environment

Applications

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



I eci	nnıcal	specifica	tions

Typical values (until otherwise specified)

Davisar accomply	Battery AA 3.6 V. 2400 mAh, lifetime 10 years typical, 7 years guaranteed
Power supply	Battery AA 3 b V Z4UU MAD IIIETIME 1U VEARS TVDICAL / VEARS DUARANTEED

(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

Beaming period The sensor transmits the measured values every minute.

Temperature and humidity sensor IC SHT3x series by Sensirion, factory calibrated

Temperature sensor (internal IC)

Range -40 °C to +85 °C. Resolution 0.0625 °C

Accuracy Typical \pm 0.2 °C (0 °C to +85 °C), from \pm 0.3 °C to \pm 0.2 °C (-40 °C to 0 °C)

Maximal \pm 0.4 °C (-40 °C to +85 °C)

Long-term drift 0.03 °C / year max.

Ambient temperature

Main unit Without hoar-frost and condensation

0 °C to +45 °C (battery lifetime 7 years guaranteed) -20 °C to +70 °C (battery lifetime not guaranteed)

Sensor unit (on the cable) -40 °C to +85 °C (fixed cable installation)

-20 °C to +85 °C (flexible cable installation)

Ingress protection IP67

Main unit Enclosure size 64 mm x 58 mm x 35 mm body, 94 mm x 68.5 mm x 35 mm total

Sensor unit Metallic case stainless steel DIN 1.4571, diameter 5.7 mm, length 50 mm. Total length 1.5 m.

Weight 175 g (including the sensor unit on the cable)