

Wireless TEMP + HUM Sensor

SKU: 5906660327899



Our temperature and humidity sensors are specifically designed to measure and monitor environmental conditions in key areas both when on the move or stationary. This capability is crucial for protecting people in spaces and alert of potentially damaging atmospheric conditions.

The advanced sensors transmit data over the cellular network using Narrowband IoT technology (NB-IOT), eliminating the need for additional devices such as routers or gateways. These sensors are equipped with a Bluetooth Low Energy interface for fast readings via a smartphone and allows for the easy integration into any Enterprise system.



Reliability Redefined

Experience constant monitoring, alerting, and sensing, providing real-time insights for informed decision-making.



Application

Seamlessly integrate with secure Cloud and Telematics platforms for unparalleled connectivity and data protection. Easy setup with pre-configured sensors ready to be deployed



Sustainable Performance

Enjoy up 5-year battery life, ensuring long-term reliability and performance. NB IOT wireless sensors cut costs with low data volumes, leveraging Cellular mobile networks.



Versatile Innovation

Our sensors measure Temperature and Humidity using proven measurement methods and can adapt to diverse environments to report.

Temperature & Humidity Sensor

Temperature range: -15° to 70°C
Accuracy up to 0.4°C
Resolution: 0.1°C, drift: 0.1°C / year
Humidity range: 0 to 99% RH
Accuracy: 4% in 0 to 80% RH
Hysteresis: +/- 1 %RH
Resolution: 1%, drift: <0.25% / year
Memory size: 40 000 measurements
Measurement interval: 1 minute to 10 days (Default 10mins)

Environmental

Operating Temperature: -15° to 70°C
Humidity: 0 to 99% non-condensing
Storage and transportation
Temperature: -40° to 70°C

Mechanical

Dimensions: 26 x 60 x 124 mm
Weight: 0.13 kg (including batteries)
Enclosure: plastic ABS, color white, IP30

Bluetooth Low Energy interface

- Radio module frequency: 2,4 GHz
- Power: 2,5 mW (4 dBm)
- Range: up to 100 m (LOS)
- Transmission period: 1 s

Communication

- NB-IoT
- NB-IoT bands - default: B8 and B20
- 3GPP: Release 13
- Power: 23 dBm ±2 dB

Power supply

- Package of 3 x AA, 6300 mAh (replaceable)
- Battery operating time: up to 5 years
- USB 5V with 1000 mAh rechargeable battery

ADDITIONAL INFORMATION

Edge analytics

Devices analyse the data and send it our platform when needed. This allows to decrease the number of cellular transmissions and increase the battery lifetime. There are several types of analyses that can be performed by the sensor: from a simple comparison of the measured value to the threshold and more.

Calibration certificate

At the customer's request, each sensor can be supplied with a calibration certificate (from our Manufacturer) in accordance with ISO / IEC 17025. The test is performed in an external, ILAC certified laboratory. The calibration date is saved in the sensors memory and it notifies the user about the suggested date of the next calibration.