# Wireless thermometer, hygrometer, barometer for external probe, Sigfox IoT

code: W7811



The wireless sensor measures temperature, humidity and pressure from external sensor on the cable (not included). It features a simple, compact design and is positioned directly in the measured area.

Measured values are displayed on the display and are regularly sent, in an adjustable time interval from 10 min to 24 h, by radio transmission in Sigfox to COMET Cloud. After the emergence of a new alarm (or the extinction of an alarm in progress), an extraordinary alarm message is sent at the latest within 10 minutes.

The temperature and humidity probe is not included in delivery, probe of the appropriate length and design you can choose in optional accessories.

The wireless meter includes **Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard.**

**Radio configuration zone RC1.** More information about Sigfox Radio Configurations (RC).
Check the Sigfox coverage in your region.

**With a newly purchased wireless sensor with Sigfox connectivity, you receive 1 year of COMET Cloud for free; an additional year of operation in COMET Cloud then requires 2 credits.**

## Technical data

| | |
|---|---|
| TEMPERATURE SENSOR | |
| Measuring range | according to the connected probe Digi/E |
| Accuracy | according to the connected probe Digi/E |
| Resolution | 0.1 °C |
| Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s) | according to the connected probe Digi/E |
| HUMIDITY SENSOR | |
| Measuring range | according to the connected probe Digi/E |
| Accuracy | according to the connected probe Digi/E |
| Resolution | 0.1% RH |
| DEW POINT | |
| Measuring range | according to the connected probe Digi/E |
| Accuracy | according to the connected probe Digi/E |
| Resolution | according to the connected probe Digi/E |
| ATMOSPHERIC PRESSURE SENSOR SENSOR | |
| Measuring range | 600 to 1100 hPa |
| Accuracy | ±1.3 hPa at 23 °C from 800 to 1100 hPa |
| Resolution | 0.1 hPa |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -30 to +60 °C |

| | |
|---|---|
| Channels | internal atmospheric pressure sensor,  1x connectable temperature+humidity probe |
| Message transmission interval | adjustable 10 minutes, 20 minutes, 30 minutes,1 hour, 3 hours, 6 hours, 12 hours, 24 hours |
| Alarm message sending interval | 10 minutes |
| Operating frequency | 868 MHz |
| Maximum transmission power | 25mW |
| Sigfox radiation class | 0U |
| Radio configuration zone | RC1 (operation is possible in Europe, Iran, Oman and South Africa) |
| Typical range of transmitter | 50 km in the field, 3 km in the city |
| Power | Lithium battery 3.6 V, AA size |
| Protection class | IP54 |
| Dimensions | 126 x 89 x 40mm |
| Weight (including batteries) | 150g |
| Warranty | 3 years |