

# Wireless thermometer with three-channels, IoT Sigfox

code: W0832P



The device measures the temperature from the built-in sensor and from two external Pt1000 probes on the cable - you can [choose them from an optional accessory](#).

The measured values are sent in an adjustable time interval (10 min to 24 h) by radio transmission in the [Sigfox network](#) to the [COMET Cloud](#), from which the user can view them using a personal computer or mobile device.

The instrument can monitor up to 2 alarm limits of the measured variable. Exceeding these limits is indicated by sending an emergency message. COMET Cloud transmits this alarm message via e-mail to the selected user. The device is suitable for applications that tolerate the delay of information delivered by Sigfox (max. 10 min).

### Highlights:

- wireless transmission of measured values and alarm states
- battery power (battery life 1 year to 10 years)
- LED indication of device status
- remote setting of the device from COMET Cloud (maximum once a day)
- IP65
- traceable calibration certificate in accordance with EN ISO / IEC 17025

### The availability of Sigfox network in a particular location

[Check your Sigfox network availability](#) before you buy your device. COMET devices in the Sigfox network can be used anywhere in the RC1 zone. Learn more about [Sigfox \(RC\) Radio Zones](#).

### Technical data

|   |  |
|---|--|
| TEMPERATURE SENSOR  |  |
| Measuring range   | -30 to +60 °C  |
| Accuracy  | ±0.4 °C  |
| Resolution  | 0.1 °C   |
| Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s) | 10 minutes   |
| TEMPERATURE SENSOR - external probe Pt1000  |  |
| Measuring range   | -200 to +260 °C  |
| Accuracy  | ±0.2 °C in the range -200 to +100 °C; ±0.2 % from reading from +100 to +260 °C |
| Resolution  | 0.1 °C   |
| GENERAL TECHNICAL DATA  |  |

|                               |   |
|-------------------------------|---|
| Operating temperature         | -30 to +60 °C   |
| Channels                      | internal temperature sensor, 2x external probe P1000  |
| Message transmission interval | adjustable 10 minutes, 20 minutes, 30 minutes, 1 hour, 3 hours, 6 hours, 12 hours, 24 hours |
| 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, C size   |
| Protection class              | IP65  |
| Dimensions                    | 126 x 89 x 40mm   |
| Weight (including batteries)  | 190g  |
| Warranty                      | 3 years   |