

Wireless thermometer with built-in sensor and with voltage input, IoT Sigfox

code: W0870P



The device measures the temperature from the built-in sensor with the possibility of installation directly into the measured space thanks to IP65 protection and DC voltage in range -30 to +30 V. By measuring the DC voltage, it is possible to remotely monitor, for example, the status of power batteries or, in general, the power status of the monitored technology. The input can also be used to connect sensors of various quantities with a standard output, eg 0-10 V.

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

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|--------------------|---|
| TEMPERATURE SENSOR | |
| Measuring range | -30 to +60 °C |
| Accuracy | ±0.4 °C |
| Resolution | 0.1 °C |
| Response time | t90 < 10 min (temperature step 20 °C, air flow approximately cca 1 m/s) |
| VOLTAGE INPUT | |
| Measuring range | -30 to +30 Vss |
| Accuracy | ±0.03 V |
| Input resistance | approx. 130 kΩ |

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|--------------------------------|---|
| Resolution | 0.001 V |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -30 to +60 °C |
| Channels | built-in temperature sensor, voltage input |
| "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 | IP20 |
| Dimensions | 126 x 89 x 40 mm |
| Weight (including batteries) | 250g |
| Warranty | 3 years |