

## Wireless thermometer with two two-state inputs, Sigfox IoT

code: W0850



Wireless thermometer measures temperature from the built-in internal sensor and evaluates two binary inputs. 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 device **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.](#)

### 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  |
| BINARY INPUT  |   |
| Parameters of the voltage contact   | Input voltage level „L“: < 1.5 V;<br>Input voltage level „H“:> 4 V;<br>Minimum input voltage: 0 V;<br>Maximum input voltage: +30 V DC |
| Parameters of the voltage-free contact  | Contact resistance for  |
| GENERAL TECHNICAL DATA  |   |
| Operating temperature   | -30 to +60 °C   |
| Channels  | internal temperature sensor, binary input   |
| 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  | IP65  |
| Dimensions  | 126 x 89 x 40mm   |

|                              |         |
|------------------------------|---------|
| Weight (including batteries) | 150g    |
| Warranty                     | 3 years |