Wireless thermometer with two two-state inputs, Sigfox IoT

code: W0850



The device measures the temperature from the built-in sensor and evaluates two binary inputs for event monitoring (open / closed / off, etc.).It features a simple, compact designwith the possibility of installation directly into the measured space thanks to IP65 protection.

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 with low battery indication (battery life 4 months to 7 years)
- external power with optional accessories
- 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.

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	-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; Input voltage level „H“:> 4 V; Minimum input voltage: 0 V; 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