IoT Wireless Temperature Sensor for 4 external Pt1000 probes with ELKA connector, powered by Sigfox

code: W0841



The device measures the temperature from four external Pt1000 probe on the cable with ELKA connector, which guarantees high protection IP 65 - 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 for each measured temperature channel. 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
- temperature measurement in up to four places for the price of one subcription
- battery power (C size 3.6 V)with low battery indication (battery life up to 10 years)
- remote setting of the device from COMET Cloud (maximum once a day)
- **IP65 for usage of device on outside applications**
- 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 - 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
Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s)	10 minutes
GENERAL TECHNICAL DATA	
Operating temperature	-30 to +60 °C

Channels	4x external temperature probe; ELKA connector
Message transmission interval	adjustable 10 minuteses, 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, capacity 8.5 Ah
Number of battery slots	1
Protection class	IP65
Dimensions	179 x 134 x 45 mm without connectors
Weight (including batteries)	350g
Warranty	3 years