Wireless thermometer, hygrometer for external probe, IoT Sigfox

code: W3811P



The device measures the temperature and humidity from an external probe on the cable - you can choose it from an optional accessory. The sensor is characterized by a simple and compact design with the possibility of installation directly into the measured space. Model with external cable probe is also suitable for measurements in areas where the risk of poor reception sigfox. The probe can be placed at the measurement point and the device itself where is able to reach a better signal. The probe length must not exceed 30 meters. The probe can be used with a suitable sensor cap even in more demanding conditions.

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).

- 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.

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	according to the connected probe Digi/E
Accuracy	according to the connected probe Digi/E
Resolution	0.1 °C
Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s)	according to the connected probe Digi/E
HUMIDITY SENSOR	
Measuring range	according to the connected probe Digi/E

Accuracy	according to the connected probe Digi/E
Resolution	0.1% RH
DEW POINT	
Measuring range	according to the connected probe Digi/E
Accuracy	according to the connected probe Digi/E
Resolution	according to the connected probe Digi/E
GENERAL TECHNICAL DATA	
Operating temperature	-30 to +60 °C
Channels	1x connectable temperature+humidity probe
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, C size
Protection class	IP65
Dimensions	126 x 89 x 40mm
Weight (including batteries)	190g
Warranty	3 years