Wireless thermometer, hygrometer barometer, síť Sigfox IoT

code: W7810



Wireless sensor measures temperature, humidity and pressure from built-in internal sensors. 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.

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
HUMIDITY SENSOR	
Measuring range	0 to 100 % RH
Accuracy	±1.8 % RH from 0 to 90 % at 23 °C
Resolution	0.1% RH
DEW POINT	
Measuring range	-60 to +60 °C
Accuracy	±1.5 °C at ambient temperature T <25 °C and RH >30 %
Resolution	0.1 °C
ATMOSPHERIC PRESSURE SENSOR SENSOR	
Measuring range	600 to 1100 hPa
Accuracy	±1.3 hPa at 23 °C from 800 to 1100 hPa
Resolution	0.1 hPa
GENERAL TECHNICAL DATA	
Operating temperature	-30 to +60 °C
Channels	internal sensor of temperature, humidity sensor and atmospheric pressure

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