

IoT-termometer & hygrometer, Sigfox

Art nr: W3810P



The device measures the temperature and humidity from the built-in internal sensor. It is characterized by a simple compact design with the possibility of installation directly into the measured space. The sensor 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).

Highlights:

- 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](#).

Tekniska specifikationer

Mätområde temperatur	-30 till +60°C
Noggrannhet temperatur	±0.4°C
Upplösning temperatur	0.1°C
Responstid temperatur t90 (steg om 20°C vid luftflöde 1m/s)	8min.
Mätområde luftfuktighet	0 to 100%
Noggrannhet luftfuktighet	±1,8%**
Responstid luftfuktighet t90 (steg om 30%RH vid konstant temperatur)	50s
Mätområde daggpunkt	-60 till +60°C***
Noggrannhet daggpunkt	± 1.5 °C vid omgivningstemperatur T< 25 °C och RH > 30 %, för detaljer se diagram
Sändningsintervall	Justerbart 10 min, 15 min, 20 min, 1 h, 3 h, 6 h, 12 h, 24 h

Radiofrekvens	868 MHz
Max sändareffekt	25mW
Sigfox-klass	0U
Konfigurerad för radiozon	RC1 (fungerar i Europa, Iran, Oman och Sydafrika)
Typisk räckvidd	50 km på landsbyggd, 3 km i stadsmiljö
Matning	Litiumbatteri 3.6 V, C
Kapslingsklass	IP65
Dimensioner	126 x 89 x 40mm
Vikt inkl. batteri	190g
Garanti	3 år