IoT-enabled wireless measuring instruments

Operates on the LoRa network for wireless connectivity

Features a large display for enhanced readability, showing the current value, minimum/maximum values. and alarm indications.

> 3.6V / AA size, lasting from 1 year up to over 10 years.

> > MEASURED



Data is transmitted to storage and analysis.



Web browser for data displaying

to 24 hours.

Your measured data

Short 5-min transmit intervals with 13 adjustable intervals up

into COMET Cloud

the COMET Cloud for

CLOUD

T RH

- Accurate measuring of
 - Temperature

Antenna.

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- Humidity
- **Barometric Pressure**
- Affordable wireless communication for long distances
- Alarm indication via email
- Data storage in the COMET Cloud
- Rugged design
- Long battery life, up to 10 years
- Short and adjustable transmit intervals

Temperature, humidity and barometric pressure wireless measurment

MEASURED VALUES			Temperature					temperature, relative humidity		temperature, re- lative humidity, bar. pressure
SENSOR MODELS			W0910	W0911	W0932	W0941	W0941E	W3910	W3911	W7910
temperature	Internal External	range	-30 to +60 °C		-30 to +60 °C			-30 to +60 °C	according to the probe	-30 to +60 °C
		accuracy	±0.4 °C	-	±0.4 °C	-	-	±0.4 °C		±0.4 °C
		range accuracy*	-	-200 to +260 °C ±0.2 °C	-200 to +260 °C ±0.2 °C	-200 to +260 °C ±0.2 °C	-200 to +260 °C ±0.2 °C	-		-
relative humidity		range						0 to 100 % RH		0 to 100 % RH
accuracy				-			± 1.8% RH	± 1.8% RH	± 1.8% RH	
dew point range							-60 to +60 °C	according to the probe	-60 to +60 °C	
barometric pressure accuracy					-				600 to 1100 hPa	
									±1.3 hPa	
sending interval / typical battery life			5-30min / 1-5yrs; >1-24hr / >10y					rs		
class of protection of case with electronics / sensors				IP6	5 / -		IP20 / -		IP65 / IP40	
accuracy of device w/o probe in measuring range of -90 to 100 °C (in range +100 to +260 °C s accuracy ±0,2 % of measured value) Accuracy of sensing element; from 0 to 90 %RH at 23 °C * for accuracy of dew point see graps at device manual				the probes Pt1000/E family	Pt1000/E	0 0 	Prince Ax inputs		the probes DIGI/E family	
1	steps for Mouting s		your measu 3		nto COMET nt to COMET C	(²⁾ ,**		MEADAT	SURED A	ALARMAS A
		MET Sentor Sentor 55 mm			8	24,8	0	ALARMS	- The second	Inditio
Pressing the activation button						DT Sensor	A A A A A A A A A A A A A A A A A A A			
		Sensor Sanar	J					LoRa Base Transceiver	Station	





All configuration parameters of the device, including cable resistance correction for temperature probes, can be set from the cloud. The new configuration can be transferred to the device multiple times a day without delay.

External temperature probes

Temperature probes attached to cables are specifically designed for measuring temperatures in certain applications. These probes are available in lengths of 1, 2, 5, and 10 meters. To ensure high-precision measurements, it is not recommended to use probes that exceed 20 meters in length. Unless otherwise specified, the probes are manufactured to Class A accuracy standards.

Creating COMET Cloud account





Sensor covers for external probes

External temperature humidity probes

The probe can be interchanged without requiring calibration for a specific device, and this interchangeability is independent of the probe cable length. The device is designed to automatically read the current calibration data from any connected probe.

Ultra thin digital probe.



(-10 to +60 °C; 0 to 100% RH)

Budget-friendly probe, designed without a filter mesh.



(-10 to +60 °C; 0 to 95% RH)

Probe designed with an interchangeable protection filter.



LoRa Base Transceiver Station

You can get started with the Internet of things within a day. Everything is pre-configured for communication with COMET Cloud. With this product family we aim to provide the most affordable LoRa solution to date without compromising quality or performance.

The gateway is weather-resistant and can operate outdoors. The range can be extended with an external antenna. **F5300** - Teflon (PTFE) sensor cover (white color), featuring increased resistance against splashing water, a non-absorbent surface, and rust-free properties. Porous size: 25µm. Temperature range: -40°C to +125°C.

F0000 - Sintered bronze sensor cover for moderately aggressive environments. Filtering ability: 0.025mm.

F5200 (F5200B - black) -Sensor cover with a stainless steel mesh filter. Filtering ability: 0.025mm.



Additional probes can be found on the Comet System website at www.cometsystem.com



Range: 15 km (2 km in the city) Power supply via a 9-30 V power jack or passive PoE.