

WebSensor with PoE - remote temperature, humidity, CO₂ concentration with Ethernet interface

code: T6641

CO₂ - carbon dioxide t-line Web sensor. Remote alarm.

Web Sensor with temperature, humidity, CO₂ cable probes with PoE function.



A multiple point CO₂ and temperature adjustment procedure leads to excellent CO₂ measurement accuracy over the entire temperature working range; this is a must for process control and outdoor applications. The dual wavelength NDIR CO₂ sensing procedure compensates automatically for ageing effects. The CO₂ module is highly resistant to pollution and offers maintenance free operation and outstanding long term stability.

The device is supplied with probes with 1m cables. Cable lengths 2 or 4 10 meters available optionally.

Processing and analysis of measured data:

- online in [COMET Cloud](#)
- [COMET Database](#) software
- [integration into 3-party systems](#)

Technical data

TEMPERATURE SENSOR	
Measuring range	-30 to +105 °C
Accuracy	±0.4 °C
Resolution	0.1 °C
HUMIDITY SENSOR	
Measuring range	5 to 95 % RH
Accuracy	± 2,5 % RH
Resolution	0.1% RH
DEW POINT	
Measuring range	-60 to +80 °C
Accuracy	±1.6°C at ambient temperature T<25°C and RH>30%
Resolution	0.1 °C
CO ₂ SENSOR	
Measuring range	0 to 10 000 ppm
Accuracy	±(100ppm +5% from reading) at 25°C and 1013hPa
Resolution	1 ppm
GENERAL TECHNICAL DATA	
Operating temperature	-30 to +80 °C
Channels	1x connectable temperature+humidity probe, 1x external CO ₂ sensor

Counted values	dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy
Output	Ethernet
Measuring interval	2 s; CO ₂ 15 s
Range of humidity sensor temperature compensation	all temperature range
Communication protocol	WWW, ModbusTCP, SNMPv1, SOAP, XML
Alarm protocols	E-mail, SNMP Trap, Syslog
Power	Power over Ethernet according to IEEE 802.3af or 5Vdc
Protection class	IP30 electronics; IP40 temperature+humidity sensor; IP65 CO ₂ sensor
Dimensions	136 x 117 x 45 mm
External probe T+RH cable length	1 meter (optionally 2 or 4 meters)
External probe cable length CO2	1 meter (optionally 2 or 4 meters)
Weight	approx. 150 g
Warranty	3 years