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



code: T6641

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

Web Sensor with temperature, humidity, CO_2 cable probes with PoE function.

A multiple point CO_2 and temperature adjustment procedure leads to excellent CO_2 measurement accuracy over the entire temperature working range; this is a must for process control and outdoor applications. The dual wavelength NDIR CO_2 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
CO2 SENSOR	
Measuring range	0 to 10 000 ppm
Accuracy	±(110ppm +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 CO₂ sensor

Counted values	dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy
Output	Ethernet
Measuring interval	2 s; CO₂ 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 CO₂ 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