

WebSensor - remote CO₂ concentration thermometer hygrometer with Ethernet interface

code: T6541



CO₂ concentration, temperature and relative humidity t-line Web sensor. Remote alarm.

Web Sensor with built-in CO₂ concentration, relative humidity and temperature sensors.

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.

High precision capacitive polymer sensor ensures excellent long term calibration stability and ultimate accuracy. Dual line LCD is an advantage. Measured values are also converted to other humidity interpretation: dew point temperature, absolute humidity, specific humidity, mixing ratio and specific enthalpy.

The CO₂ concentration is shown on the display or signaled by a color LED.

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 100% RH
Accuracy	±2.5% relative humidity from 5 to 95% at 23°C
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	9-30 Vdc
Protection class	IP30 electronics; IP40 temperature+humidity sensor; IP65 CO ₂ sensor
Dimensions	88,5 x 147 x 39,5 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