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 CO_2 concentration, relative humidity and temperature sensors.

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.

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 CO_2 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
CO2 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 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	9-30 Vdc
Protection class	IP30 electronics; IP40 temperature+humidity sensor; IP65 CO₂ 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