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



code: T6640

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

Web Sensor with built-in temperature, humidity, $CO_2$ sensor 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 $CO_2$ 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

Optional $CO_2$ measuring range extension from the standard 0 to 5,000 ppm up to 0 to 10,000 ppm (available at extra cost):

- **Extended measuring range:** 0 to 10 000 ppm
- **Accuracy in extended range:** 100 ppm + 5% of the measured value at 25 °C and 1013 hPa

## Technical data

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|---|---|
| TEMPERATURE SENSOR | |
| Measuring range | -20 to +60 °C |
| Accuracy | ±0.6 °C |
| Resolution | 0.1 °C |
| HUMIDITY SENSOR | |
| Measuring range | 0 to 100 % 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 5000 ppm |
| Accuracy | ±(50ppm +3% from reading) at 25°C and 1013hPa |
| Resolution | 1 ppm |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -30 to +60 °C |

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|---|---|
| Channels | internal temperature, humidity and CO<sub>2</sub> sensor |
| Counted values | dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy |
| Output | Ethernet |
| Measuring interval | 2 s; CO<sub>2</sub> 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 sensors |
| Dimensions | 136 x 117 x 45 mm |
| Weight | approx. 150 g |
| Warranty | 3 years |