

## WebSensor - remote CO<sub>2</sub> concentration thermometer hygrometer with Ethernet interface

code: T6540



CO<sub>2</sub> concentration, temperature and relative humidity t-line Web sensor. Remote alarm.

Web Sensor with built-in CO<sub>2</sub> concentration, relative humidity and temperature sensors.

A multiple point CO<sub>2</sub> and temperature adjustment procedure leads to excellent CO<sub>2</sub> measurement accuracy over the entire temperature working range; this is a must for process control and outdoor applications. The dual wavelength NDIR CO<sub>2</sub> sensing procedure compensates automatically for ageing effects. The CO<sub>2</sub> 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<sub>2</sub> 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<sub>2</sub> 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

|                    |                                                 |
|--------------------|-------------------------------------------------|
| TEMPERATURE SENSOR |                                                 |
| Measuring range    | -30 to +80 °C                                   |
| Accuracy           | ±0.6 °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 5000 ppm                                                                    |
| Accuracy                                          | $\pm(50\text{ppm} + 3\% \text{ from reading})$ at 25°C and 1013hPa               |
| Resolution                                        | 1 ppm                                                                            |
| GENERAL TECHNICAL DATA                            |                                                                                  |
| Operating temperature                             | -30 to +60 °C                                                                    |
| 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                                             | 9-30 Vdc                                                                         |
| Protection class                                  | IP30 electronics, IP40 sensors                                                   |
| Dimensions                                        | 88,5 x 170 x 39,5 mm; stem length 75 mm                                          |
| Weight                                            | approx. 150 g                                                                    |
| Warranty                                          | 3 years                                                                          |