

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

code: T6641

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

Web Sensor with temperature, humidity, CO<sub>2</sub> cable probes with PoE function.



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.

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               | ±(100ppm +5% from reading) at 25°C and 1013hPa  |
| Resolution             | 1 ppm                                           |
| GENERAL TECHNICAL DATA |                                                 |
| Operating temperature  | -20 to +60 °C                                   |

|                                                   |                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------|
| Channels                                          | 1x connectable temperature+humidity probe, 1x external 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 temperature+humidity sensor; IP65 CO <sub>2</sub> 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                                                                          |