

## Temperature, humidity, CO2 transmitter with RS485 interface

code: T6440

Temperature, humidity, CO2 level sensor. Outdoor, indoor use.



**Green LED shines - CO2 concentration 0 to 1000 ppm**

**Yellow LED shines - CO2 concentration 1001 to 1200 ppm**

**Red LED shines - CO2 concentration 1201 ppm and more**

[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        | -10 to +50 °C                                             |
| Accuracy               | ±0.5 °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               | ±(50ppm +3% 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,<br>mixing ratio, specific enthalpy |
| Range of humidity sensor temperature compensation | all temperature range                                                               |
| Output                                            | RS485                                                                               |
| Communication protocol                            | ModBus RTU, ARION, Advantech ADAM                                                   |
| 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                                                                             |