

CO2 concentration thermometer hygrometer with RS485 interface, duct mount

code: T6445



Duct mount CO2 concentration t-line WebSensor.

Transmitter with built-in concentration CO₂, temperature, relative humidity sensor for duct mount.

A multiple point CO₂ and temperature adjustment procedure leads to excellent CO₂ measurement accuracy over the entire temperature working range; this is a must for process control and outdoor applications. The dual wavelength NDIR CO₂ 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.



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

Technical data

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| TEMPERATURE SENSOR | |
| Measuring range | -30 to +60 °C |
| Accuracy | ±0.4 °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 |

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| CO2 SENSOR | |
| Measuring range | 0 to 2000 ppm |
| Accuracy | ±(50ppm +2% 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 ₂ sensor |
| Counted values | dew point, absolute humidity, specific humidity, 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 | 89 x 73 x 240 mm; stem length 130 mm |
| Weight | approx. 150 g |
| Warranty | 3 years |