CO2 concentration and temperature transmitter with RS485 output, built-in sensors



code: T8448

Carbon dioxide level and temperature sensor.

CO2 concentration and temperature transmitter with serial RS485 output is specially designed for use in exacting interiors in building energy management and HVAC systems. It designed for easy installation on ordinary KU68 wiring boxes for household switches and sockets.
Large dual line LCD is possible to switch off.
Computerized design ensures long term stability and fail indication. Transmitter is designed for use in non-aggressive environment.

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_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

TEMPERATURE SENSOR	
Measuring range	-10 to +50 °C
Accuracy	±0.5 °C
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	-10 to +50 °C
Channels	internal temperature sensor a CO₂
Counted values	dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy
Output	RS485
Available temperature units	degrees Celsius, degrees Fahrenheit
Communication protocol	ModBus RTU, ARION, Advantech ADAM
Power	9-30 Vdc
Protection class	IP20
Dimensions	88 x 106 x 33 mm
Weight	approx. 150 g
Warranty	3 years