

Technical Data

CO2 sensor - discontinued



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The CO2 sensor is designed for use in harsh, demanding OEM applications. A multiple point CO2 and temperature adjustment procedure leads to excellent CO2 measurement accuracy over the entire temperature working range, ideal for use in agriculture or outdoors for instance. The sensor incorporates the dual wavelength NDIR CO2 sensor, which compensates for ageing effects, is highly insensitive to pollution and stands for outstanding long term stability. The measured data range of up to 10000ppm is available on the Modbus or on the E2 digital interface. An optional kit facilitates easy configuration and adjustment. The measurement interval can be set according to the application requirements, by this the average current consumption can be reduced to 120A for battery-operated devices.

General	
Dimensions	Length 96 mm, Ø 18.5 mm
Housing	Plastic PC
Protection type	IP65
Operating temperature	-40...60°C
Operating humidity range	0...100% RH (non-condensing)
Admissible air pressure	850...1100hPa
Storage temperature	-40...60°C
Storage humidity	0...100% RH (non-condensing)
Storage pressure	700...1100hPa
Temperature dependency	typ. 1ppm CO2 °C (-20...45°C)
Outputs	Digital RS485-BUS
Power supply	4,75...7,5V DC, max. 350mA for 0.05s
Electrical connection	Connector M12

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Electromagnetic compatibility (Industrial environment)	EN61326-1 EN61326-2-3
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Principle	Dual wavelength, non-dispersive infrared technology (NDIR)
Measuring range	0 ... 5000 ppm
Unit	ppm
Accuracy	at 25°C and 1013mbar: < ±50ppm +3% of measuring value (for averaging output)