> **Duct CO2 sensors** Sensors - air handling



Characteristics

- sensor for measurements in an air duct
- accurate, even in the long term
- easy installation

Usage

The sensor measures CO_2 in air ducts. Air from the air duct flows via the probe to the CO_2 measuring cell in the housing and then flows back to the air duct via the probe.

Accurate

The CO₂ measuring cell is based on Dual Wavelength Nondispersive Infrared (NDIR) technology, automatically compensates for ageing phenomena and is insensitive to contamination. This guarantees a high level of accuracy, even in the long term.

Easy installation

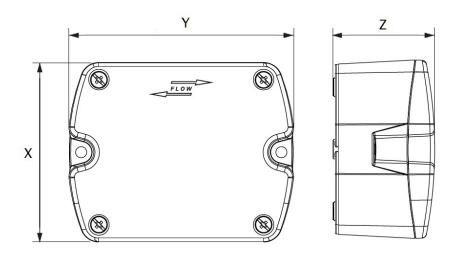
The probe is installed in the air duct with a mounting flange with rubber seal.

Specifications

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General		
Article description	Duct CO2 sensor 0-10V	
Article number	111252	
Dimensions (XYZ)	80.6 x 101 x 46 mm	
Weight	196 grams	
Housing material	polycarbonate, UL94-V0 approved	
Length of probe	200 mm	
IP code of housing	IP65 NEMA 4	
IP code of probe	IP20	
Cable gland	M16 x 1.5	
Supply voltage	24 VAC ± 20 % 15 35 VDC	
Power consumption	typ. 15 mA + output current max. 350 mA for 0.3 s	
Minimum flow rate (recommended)	1 m/s	
Electrical connection	screw connector max. 2.5 mm² (AWG14)	
Output signal	0-10 V (-1 mA < I _L < 1 mA)	
Permissible ambient temperature during storage and use	-20 60 °C	
Permissible ambient relative humidity during storage and use	0 95 % (non-condensing)	



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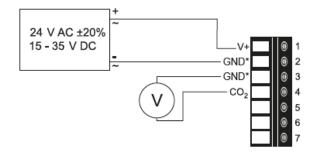


Measured value	
CO 2	
Measuring principle	Dual Wavelength Nondispersive Infrared (NDIR) technology
Measurement range	0 2000 ppm
Accuracy at 25°C and 1013 mbar	50 ppm +2% of the measured value
Reaction time τ63	< 100 s at air speed of 3 m/s in an air duct
Temperature dependency	typ. 1 ppm CO ₂ / °C (-20 45°C)
Calibration interval ¹	>5 years
Sample rate	approximately 15 s

¹ Under normal operating conditions.

Regulations and standards			
Europe	CE	• EN61326-1 • EN61326-2-3	
USA / Canada		FCC Part15 Class B	
		ICES-003 Class 3	

Wiring diagram



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