

ADS-CO2-D | Duct mounted carbon dioxide sensor

The sensor is used to measure the amount of CO₂ in an air duct. It suits for air quality control systems, ventilation and heat recovery systems.

- › works on the optical NDIR principle
- › during operation maintenance not required
- › 0 – 10V analog output + output relay
- › easy air duct mounting
- › long service life and stability



It is equipped with voltage/current analog output and with an output relay. The analog output value is proportional to the concentration of CO₂. The measuring of CO₂ works on the principle of infrared radiation attenuation dependence on the CO₂ concentration in the air. Built-in electronics converts the infrared radiation attenuation changes in the measuring cell to the analog output. The sensor is capable to measure the CO₂ in the air concentration in the range of 400 up to 2000 ppm.

Parameter	Value	Unit
Supply voltage range	14 – 40	V DC
	18 – 30	V AC
Power consumption	50	mA
Voltage output	0 – 10	V DC
Current output 1	0 – 20	mA
Current output 2	4 – 20	mA
Switched voltage	max 250	V AC
Switched current	max 3	A
Measuring range	400 – 2000	ppm
Resolution	1	ppm
Accuracy	± 45 ppm ± 5 % ppm	
Working temperature	0 to +40	°C
Working humidity	5 to 95 %	RH
Storage temperature	-30 to +70	°C
Estimated service life	min. 10	years
Dimensions	257x100x60	mm
- Minimum achievable output value corresponds to minimum value of the measuring range. - Warm-up: stable after 1 minute from power on. - Calibration during operation is not necessary.		

Output voltage/current dependence graph

