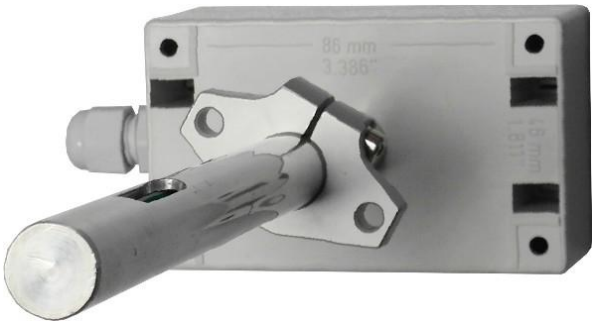
ADS-CO2-D | Duct mounted carbon dioxide sensor

The sensor is used to measure the amount of CO_2 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 CO_2. The measuring of CO_2 works on the principle of infrared radiation attenuation dependence on the CO_2 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 CO_2 in the air concentration in the range of 370 up to 2000 ppm.

Parameter	Value	Unit
Power supply optional -	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	370 – 2000	ppm
Resolution	1	ppm
Accuracy	± 45ppm ± 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

- Warm-up: stable after 1 minute from power on.
- Calibration during operation is not necessary.

Output voltage dependence graph