

ADS-CO2-24 | Carbon dioxide sensor 24V

The sensor is used to measure the amount of CO₂ in the room. It suits for air quality control systems, ventilation and heat recovery systems used in the restaurants, shops, offices, households, flats and so on.

- > works on the optical NDIR principle
- > adjustable sensitivity
- > 0 – 10V analog output + output relay
- > doesn't need maintenance during operation
- > long service life and stability



Device is designed for detection, indication and control the CO₂ in the air level in the interiors. The measuring of CO₂ works on the principle of infrared radiation attenuation dependence on the CO₂ concentration in the air. Unlike the other similar sensors working on the electrochemical principle it has very good long term stability.

Parameter	Value	Unit
Supply voltage range	14 – 24 24	V DC V AC
Input	2,5	VA
Measuring range	400 – 2000	ppm
Resolution	1	ppm
Accuracy	± 45 ppm ± 5 % of reading	
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. 16	A
Switching hysteresis	1,5 (300)	V (ppm)
Working temperature	0 to +40	°C
Working humidity	5 to 95 %	RH
Storage temperature	-20 to +60	°C
Expected lifetime	min. 10	years
Dimensions	125x83x37	mm
- Minimum achievable output value corresponds to minimum value of the measuring range.		

Output voltage/current dependence graph:

