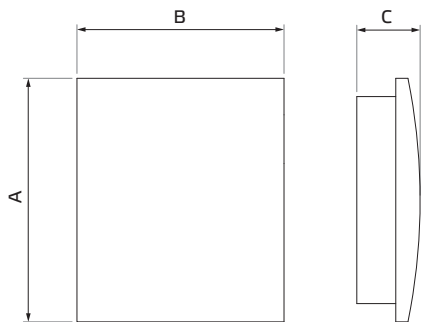


DATA SHEET

CO2 control SEN CO2



Type	ID	A mm	B mm	C mm	Weight kg
SEN CO2	126586	100	85	26	0,09
SEN CO2-OPTION *	127338	100	85	26	0,09

- Protection class IP 30
- Long-term stable double-beam infrared cell
- For variable air volume control in meeting rooms

* The sensor is mounted in the device and completely wired.

Description:

The SEN CO2 sensor combines CO2 und temperature measurement in one housing. The CO2 measurement is based on the infrared principle. A patented auto-calibration procedure compensates the aging of the infrared sensor and realizes the Long term stability.

Technical data:

Measuring values

CO ₂	Measurement principle	Non-Dispersive Infrared Technology (NDIR)	
	Sensor	Dual Source Infrared System	
	Working range	0...2000 ppm	
	Accuracy at 25 °C and 1013 mbar	0...2000 ppm:	< ± (50 ppm + 2 % v.Mw.)
	Response time t ₆₃	< 195 s	
	Temperature dependence	typ. 2 ppm CO ₂ / °C	
	Long term stability	typ. 20 ppm / a	
	Sample rate	ca. 15 s	
Temperature	Accuracy at 20 °C	± 0,3 °C	

Output

Analogue output	0...2000 ppm	0 - 10 V	
	0...50 °C	0 - 10 V	-1 mA < I _L > 1 mA

General

Supply voltage	24 V AC ± 20 %	15 - 35 V DC
Current consumption	typ. 10 mA + Output current max. 0.5 A for 0.3 s	
Warm up time	< 5 min	
Housing / Protection class	PC / IP 30	
Electrical connection	Screw terminals max 1.5 mm ²	
Electromagnetic compatibility	EN61326-1 EN61326-2-3	

Working temperature range 0...90 % RH (non condensing) / -20...60 °C
Storage temperature range 0...90 % RH (non condensing) / -20...60 °C

Connection Diagram:

