

CO2-VAL Recessed Wall Value CO₂ Sensor

2000 ppm CO₂
Dual 3-wire 4-20mA and 0-5V/0-10V (selectable)



DESCRIPTION

Senva CO₂ sensors maximize energy savings by ensuring optimal ventilation. Measuring exhaled CO₂ levels ensures air is conditioned only when needed. The CO₂-VAL is a flush mount design sensor with NDIR sensing element and auto-calibration mode.

APPLICATIONS

- Indoor CO₂ measurement
- Facilitates compliance with ASHRAE 62.1 standard for air quality
- Offices, conference rooms, and public assembly areas

FEATURES

The industry's best looking CO₂ sensor meets demanding architectural standards.

- Fits in any standard j-box or low voltage bracket.
- No exposed screws; unobtrusive tamper resistant design
- Popular colors to match any decor

High reliability reduces call backs

- Non-dispersive infrared sensing element (NDIR)
- 15+ year life expectancy on CO₂ sensing element
- Industry leading 7-year limited warranty on electronics; NDIR module 3 years

High accuracy for improved system performance

- Auto-calibration mode returns sensor to baseline values
- ±30ppm, ±3% of reading



Trim Ring provided for surface mount applications or mis-sized j-boxes



ORDERING

CO2-VAL Value CO₂

To order replacement sensor elements, please consult factory

SPECIFICATIONS

Power Supply		12-30VDC/24VAC ⁽¹⁾ , 100mA max.
Analog Outputs	Dual Analog	3-wire 4-20mA and 0-5V/0-10V ⁽²⁾ (dip switch selectable)
	Output scaling	0 - 2000 ppm
Sensor Performance	Type	Non-dispersive Infrared (NDIR)
	Accuracy	±30ppm, ±3% of reading, 0-50°C, 0-85%RH
	Response time	60s to 90% reading
	Output update rate	1second
Operating Environment	Temperature	14 to 122°F (-10 to 50°C)
	Humidity	0-95% non-condensing
Enclosure	Material	ABS Plastic
	Dimensions (fits low-voltage bracket)	4.7" h x 2.9" w x 1.24" d (0.48" wall profile)

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.
 (2) 15-30VDC/24VAC power supply voltage required for 10 volt output.

DIMENSIONS

