

Recessed Wall Bid Spec CO2 Sensor

2000 ppm CO2
Field replaceable NDIR element
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

- Controlling ventilation in response to occupancy
- Facilitating compliance with ASHRAE 62.1-2004 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)
- Field replaceable CO2 sensor
- 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
- ± 40 ppm, $\pm 3\%$ of reading



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



Field replaceable element

- Replaceable CO2 element for easy service



ORDERING

CO2-VAL Economy 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) (jumper)
	Output scaling 0 - 2000 ppm
Sensor Performance	Type Non-dispersive Infrared (NDIR)
	Accuracy ± 40 ppm, $\pm 3\%$ of reading
	Response time 60 seconds to 90% reading
	Output update rate 3 seconds
Operating Environment	Temperature 32 to 122F (0 to 50C)
	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. (1) One side of transformer, secondary is connected to signal common. Dedicated transformer is recommended.

DIMENSIONS

