

# 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

- 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)
- 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
- $\pm 40$ 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



7 year limited warranty

**ORDERING**

**CO2-VAL Economy CO2**

To order replacement sensor elements, please consult factory

**SPECIFICATIONS**

Power Supply	12-30VDC/24VAC <sup>(1)</sup> , 100mA max.
Analog Outputs	Dual Analog 3-wire 4-20mA and 0-5V/0-10V <sup>(2)</sup> (jumper)
	Output scaling 0 - 2000 ppm
Sensor Performance	Type Non-dispersive Infrared (NDIR)
	Accuracy ±40ppm, ±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.

**DIMENSIONS**

