

Duct Bid Spec CO2 Sensor

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



DESCRIPTION

Senvia CO2 sensors maximize energy savings by ensuring optimal ventilation. Measuring exhaled CO2 levels ensures air is conditioned only when needed. The CO2D-VAL series is a duct mount sensor with a field replaceable NDIR sensing element and features that include auto-calibration and optional thermistor for temperature readings.

APPLICATIONS

- Controlling ventilation in response to occupancy
- Facilitates compliance with ASHRAE 62.1 standard for air quality
- Offices, conference rooms, and public assembly areas

FEATURES

Easy to install and maintain

- Dual 4-20mA and 0-5/0-10V output (jumper selectable)
- Field replaceable CO2 sensor

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
- ± 40 ppm, $\pm 3\%$ of reading



Field replaceable element

- Replaceable NDIR CO2 element for easy service



7 year limited warranty

ORDERING

CO2D-VAL-

temp



Temperature

A = None
C = 100Pt (385)
D = 1000Pt (385)
E = 10k type 2
F = 10k type 3
G = 10k type 3 w/11k shunt
H = 3k
I = 2k2
J = 1k8
K = 20k
L = 100k

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	±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	4.0'h x 4.4"w x 2.1"d (+6.8" probe)

(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.