**Wall Mount Carbon Dioxide Transmitter**

Measures up to 2000 ppm, Adjustable Output

The Series CDX Carbon Dioxide Transmitter is a low cost and high performing CO2 sensor. On-Demand ventilation using CO2 sensors prevents energy losses from over ventilation while maintaining indoor air quality. The potential for the greatest energy saving occurs in areas where occupancy varies over the duration of the day. The Series CDX Transmitters utilize a proprietary logic algorithm to eliminate the need for manual calibration in applications where the indoor CO2 level drops to outside levels during unoccupied periods.

**SPECIFICATIONS**

- **Range:** 0 to 2000 PPM.
- **Accuracy:** ±30 PPM or 3% of reading, whichever is higher,* digital to analog error ±1%.
- **Temperature Dependence:** 0.2% FS per °C (±0.11% per °F).
- **Stability:** < 2% of FS over life of sensor (15 years).
- **Pressure Dependence:** 0.135% of reading per mm of Hg.
- **Response Time:** 5 s.
- **Warm Up Time:** < 2 min (operational), 10 min (max. accuracy).
- **Temperature Limits:** Operating: 32 to 122°F (0 to 50°C); Storage: -40 to 158°F (-40 to 70°C).
- **Humidity Limits:** 0 to 95% relative humidity, non-condensing.
- **Power Requirements:** 18 to 30 VAC RMS 50/60 Hz or 18 to 42 VDC, polarity protected.
- **Power Consumption:** .7 W @ nominal voltage of 24 VAC RMS.
- **Sensor:** Non-dispersive infrared (NDIR) absorption.
- **Output:** 0 to 5V or 0 to 10V jumper selectable (100 Ω output impedance), 4 to 20 mA (RL maximum 500 Ω).
- **Housing:** Flammability classification UL94 5VA.
- **Weight:** European Housing: 0.34 lb (154 g); North American Housing: 0.39 lb (177 g).
- **Agency Approvals:** CE, RoHS.

*CO2 accuracy statement excludes standard gas used for calibration that has an accuracy of 2%.

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**ACCESSORIES**

- Model 1508, Duct Mount Enclosure
- Model 1552, Outside Air Measurement Enclosure

**Duct Mount Carbon Dioxide Transmitter**

NDIR Sensing Technology, 2000 PPM Range

The Model CDD Duct Mount Carbon Dioxide Transmitter monitors the occupancy in a room by detecting the concentration of carbon dioxide in the return air duct. The non-dispersive infrared sensing technology automatically updates the calibration of the transmitter using a proprietary logic feature which limits the amount of error due to drift. The Model CDD can measure up to 2000 PPM in duct air flows less than 1500 FPM.

**SPECIFICATIONS**

- **Range:** 0 to 2000 PPM.
- **Accuracy:** ±40 PPM + 3% of reading @ 22°C.
- **Temperature Dependence:** 0.2% FS per °C.
- **Stability:** < 2% of FS over life of sensor (15 years).
- **Non-Linearity:** < 1% of FS.
- **Pressure Dependence:** 0.13% of reading per mm of Hg.
- **Response Time:** 3 minutes typical for 90% step change.
- **Duct Air Velocity Range:** 0 to 1500 FPM (7.63 m/s).
- **Ambient Operating Temperature:** 32 to 122°F (0 to 50°C).
- **Storage Temperature:** -20 to 70°C.
- **Power Requirements:** 18 to 30 VAC RMS 50/60 Hz or 18 to 42 VDC.
- **Power Consumption:** 1.65 watts peak (0.65 watts average at 42 VDC).
- **Outputs:** 0 to 10 VDC.
- **Housing:** Flammability classification UL rated 94V-0.
- **Weight:** 8 oz (230 g).
- **Agency Approval:** CE.

**Model**

- **CDD**, Carbon Dioxide Transmitter
- **CDD-LP**, Carbon Dioxide Transmitter with 8” Probe