The Series CDD Carbon Dioxide Transmitter is a low cost and high performing CO₂ sensor. This product will provide immediate energy savings by functioning in conjunction with building automation systems and allowing the user to effortlessly and effectively control fresh air into preferred areas. 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 alters over the duration of the day. The Series CDD Transmitters utilize the patented Automatic Background Calibration (ABC) Logic self-calibration system. ABC Logic virtually eliminates the need for manual calibration in applications where the indoor CO₂ level drops to outside levels during unoccupied periods. If the transmitter is being used in an application where a building is continuously occupied 24 hours per day, then the user will permit that the ABC Logic feature be turned off.

**ACCESSORIES**

**Model** | **Output** | **Housing** | **Price**  
---|---|---|---
CDX-2W10 | Current | North America | $205.00  
CDX-2W20 | Voltage | North America | 205.00  
CDX-2E10 | Current | Europe | 205.00  
CDX-2E20 | Voltage | Europe | 205.00  

## Wall Mount Carbon Dioxide Transmitter

**Measures up to 2000 ppm, Adjustable Output**

The Series CDX Carbon Dioxide Transmitter can measure up to 2000 ppm in duct air flows less than 1500 FPM.

### SPECIFICATIONS

**Range:** 0 to 2000 PPM.  
**Accuracy:** ±30 PPM or 3% of reading, whichever is higher. CO₂ accuracy statement excludes standard gas used for calibration that has an accuracy of 2% and there is a potential digital to analog error of up to 1%.  
**Temperature Dependence:** 0.2% FS per °C (± 0.11% per °F).  
**Stability:** < 2% of FS over life of sensor (15 years).  
**Pressure Dependence:** ±30 PPM or 3% of reading, whichever is higher. CO₂ accuracy statement excludes standard gas used for calibration that has an accuracy of 2% and there is a potential digital to analog error of up to 1%.  
**Response Time:** < 2 min (operational).  
**Warm Up Time:** 10 min (max. accuracy).  
**Temperature Limits:** Operating: 32 to 122°F (0 to 50°C); Storage: -40 to 158°F (-40 to 70°C).

- **North American**  
  - **Voltage:** 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:** Analog, 0 to 5 V or 0 to 10 V jumper selectable (100 Ω output impedance), 4 to 20 mA (RL maximum 500 Ω).  
  - **Flammability classification UL94 SVA.**  
  - **Agency Approvals:** CE, RoHS.

- **European**  
  - **Flammability classification UL rated 94V-5VA.**  
  - **Agency Approval:** CE.

**Humidity Limits:** 0 to 95% relative humidity, non-condensing.

**Power Requirements:** 18 to 30 VAC RMS 50/60 Hz or 18 to 42 VDC.

**CALL TO ORDER | 800/672-9141**

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## 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.

**Model CDD, Carbon Dioxide Transmitter**  
- **Price:** $254.00

**Model CDD-LP, Carbon Dioxide Transmitter with 8” Probe**  
- **Price:** $321.00

### 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.  
**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:** -4 to 158°F (-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.  
**Flammability classification:** UL rated 94V-5VA.  
**Weight:** 8 oz (230 g).  
**Agency Approval:** CE.