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 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 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 CDX 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.

**The Model CDD Duct Mount Carbon Dioxide Transmitter**
Measures up to 2000 ppm, Adjustable Output

**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:** 0.13% of RHP.
- **Non-Linearity:** < 2% of FS.
- **Response Time:** 3 minutes typical for 90% step change.

**Duct Air Velocity Range:** 0 to 1500 FPM (7.63 m/s).

**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:** Analog, 0 to 5 V or 0 to 10 V jumper selectable (100 Ω output impedance), 4 to 20 mA (RL maximum 500 Ω).

**Housing:** Flammability classification UL94 5VA.

**Weight:** European Housing: 5.44 oz (154 g); North American Housing: 6.24 oz (177 g).

**Agency Approvals:** CE, RoHS.

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