Wall Mount Carbon Dioxide/ Temperature Transmitter

The Series CDW Wall Mount Carbon Dioxide/Temperature Transmitter combines accurate CO₂ measurements with a passive temperature output. The Non-Dispersive Infrared (NDIR) sensor continuously updates the calibration through a proprietary logic feature which limits the amount of error due to drift. The CDW series is ideal for building automation systems to help control the fresh air intake in a room.

**SPECIFICATIONS**

- **Range:** 0 to 2000 PPM CO₂.
- **Accuracy:** ±100 PPM @ 22°C.
- **Temperature Dependence:** 0.2% FS per °C stability + 2% of FS mower life of sensor.
- **Non-linearity:** < 1% of FS.
- **Pressure Dependence:** 0.13% of reading per mm of Hg.
- **Response Time:** 3 to 5 minutes for 90% step change.
- **Ambient Operating Temperature:** 32°F to 122°F (0 to 50°C).
- **Storage Temperature:** -4 to 158°F (-20 to 70°C).
- **Power Requirements:** 18 - 30 VAC RMS 50/60 Hz, 18 to 42 VDC polarity protected.
- **Power Consumption:** 1.65 watts peak (0.65 watts average at 42 VDC).
- **Outputs:** 0 to 10 VDC.
- **Housing:** Flammability classification UL rated 94V-2.
- **Weight:** 0.5 lb (227 g).

**Model CDW, Wall Mount CO₂/Temperature Transmitter**
Model CDW-LED, Standard Model with LED Option

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**Duct Mount Carbon Dioxide Transmitter**

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.
- **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°F to 122°F (0 to 50°C).
- **Storage Temperature:** -4 to 158°F (-20 to 70°C).
- **Power Requirements:** 18 - 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-2.
- **Weight:** 8 oz (230 g).

**Model CDD, Carbon Dioxide Transmitter**