The Model CDSN Carbon Dioxide Transmitter accurately monitors the CO₂ concentration and temperature in schools, office buildings, and other indoor environments to help achieve LEED® certification and energy savings. In order to achieve a higher level of accuracy, the Model CDSN includes digital barometric pressure adjustment. The CO₂ universal output allows users to select the transmitter output to be 4-20 mA, 0-5 VDC, or 0-10 VDC to work with virtually any building management controller. In addition, the housing security feature reduces the likelihood of physical tampering.

**BENEFITS/FEATURES**

- Minimize inventory and save time by combining CO₂ and temperature measurement, as well as DIP switch selectable current/voltage outputs
- Integral passive temperature reduces the number of devices mounted in the space
- Requires minimal maintenance with Automatic Baseline Correction (ABC) to account for sensor drift
- Reduce operation costs using a low energy, reliable, and repeatable CO₂ sensor
- Simplify installation with backplate electrical connections

**APPLICATIONS**

- Demand control ventilation in schools
- Indoor air quality monitoring in office buildings

**SPECIFICATIONS**

- **Sensor:** NDIR.
- **Range:** 0 to 2000 PPM.
- **Accuracy:** ±40 PPM +3% of reading*.
- **Response Time:** < 120 s (T90).
- **Warm Up Time:** < 2 minutes operational; 10 minutes max accuracy.
- **Temperature Sensor Accuracy:** ±1°C @ 25°C**.
- **Temperature Limits:** Operating: 32 to 122°F (0 to 50°C); Storage: -22 to 158°F (-30 to 70°C).
- **Humidity Limits:** 5 to 90% RH, non-condensing.
- **Power Requirements:** 24 VAC/VDC ± 20%, 50/60 Hz.
- **Output Signal:** Field selectable; Current: 4-20 mA or 0-20 mA; Voltage: 0-5 V, 1-5 V, 0-10 V, or 2-10 V.
- **Electrical Connection:** Screw terminals.
- **Enclosure Material:** ABS.
- **Enclosure Rating:** NEMA 1 (IP30).
- **Agency Approvals:** CE.

*The specified CO₂ accuracy is only achieved after three weeks of continuous operation in environments which are intermittently occupied.

**Included passive resistor: Resistor A - 10K Ω type 3 NTC thermistor; Resistor B - 10K Ω type 2 NTC thermistor; Resistor F - 20K Ω NTC thermistor.

USA: California Proposition 65

⚠️WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov