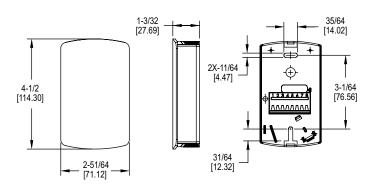
CARBON DIOXIDE TRANSMITTER NDIR CO2 Sensor, Universal Output, Passive Temperature

CALIBRATION SERVICES AVAILABLE





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

MODEL CHART	
Model	Description
CDSN	Carbon dioxide transmitter

SPECIFICATIONS

Sensor: NDIR, 15 year life expectancy.

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: 0 to 85%, 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 guaranteed after three weeks of continuous operation in environments which are intermittently occupied.

**Included passive sensor: Sensor A - 10K Ω type 3 NTC thermistor;

Sensor B - 10K Ω type 2 NTC thermistor; Sensor F - 20K Ω NTC thermistor.