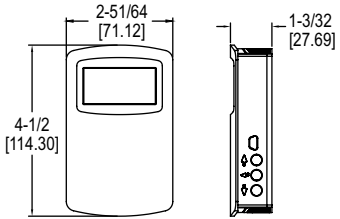
SERIES CDTC

COMMUNICATING CARBON DIOXIDE SENSOR

NDIR CO_2 Sensor, Measures CO_2, Temperature, Temperature Set Point with Override





5 YEAR LIMITED WARRANTY

The **Series CDTC Communicating Carbon Dioxide Sensor** combines the function of two room sensors into a single, compact housing. Parameters include carbon dioxide, temperature, and temperature set point with override. A 4-wire connection and daisy chaining together reduces installation cost. The RS-485 MAC address is set up using on-board DIP switches. Additional DIP switches are used to select Modbus® RTU or BACnet MS/TP and to limit access to the set up menu. The barometric pressure can be programmed to correct for altitude.
Optional integral display is available to display temperature, or temperature set point instead of CO_2.
For environments occupied 24 hours per day it is recommended to periodically expose the CO_2 sensor to outside ambient air.

BENEFITS/FEATURES

- Minimize inventory and save time by combining CO_2 and temperature measurements into one transmitter
- Reduces the number of devices mounted in the space with integral temperature sensing
- Requires minimal maintenance with Automatic Baseline Correction (ABC) to account for sensor drift
- Field selectable Modbus® and BACnet communications reduces wiring
- Simplify installation with backplate electrical connection

APPLICATIONS

- Demand control ventilation in schools, office buildings, hospitals, and other indoor environments
- LEED® certification

MODEL CHART

Model	Max CO_2 Level	Housing Style	Display
CDTC-2N000	2000 PPM	North American	No
CDTC-2N000-LCD	2000 PPM	North American	Yes
CDTC-5N000	5000 PPM	North American	No
CDTC-5N000-LCD	5000 PPM	North American	Yes

SPECIFICATIONS

Range: 0 to 2000 or 5000 PPM CO_2 (depending on model); 32 to 122°F (0 to 50°C) temperature.
Accuracy*: ±40 PPM +3% of reading (2000 PPM), ±50 PPM + 5% of reading (5000 PPM).
Response Time: 2 min for 90% step change.
Sensor Technology: NDIR, 15 year life expectancy.
Temperature Limits: 32 to 122°F (0 to 50°C).
Output: 2-wire RS-485, Modbus® RTU or BACnet MS/TP communication protocol.
Humidity Limits: 0 to 85% RH (non-condensing).
Power Requirements: 10-42 VDC / 10-30 VAC.
Weight: 4.4 oz (125 g).
Compliance: BTL, CE.

*The specified CO_2 accuracy is only guaranteed after three weeks of continuous operation in environments which are intermittently occupied.

ACCESSORIES

Model	Description
A-449	Remote LCD display allows remote indication
A-CDT-KIT	Accessory kit including terminal block and power supply

OPTIONS

To order add suffix:	Description
-FC	Factory calibration certificate
Example: CDTC-2N000-FC	

LEED® is a registered trademark of the U.S. Green Building Council.
Modbus® is a registered trademark of Schneider Automation, Inc.