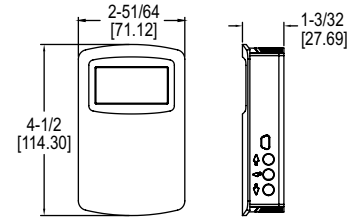


Dwyer

SERIES CDTA

COMMUNICATING CARBON DIOXIDE DETECTORS

Measures CO₂, Humidity, Temperature, Temperature Set Point with Override

The **Series CDTA Communicating Carbon Dioxide Detectors** combine the function of three room sensors into a single, compact housing. Parameters include carbon dioxide, humidity, 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. The humidity sensor is field replaceable without the need for additional calibration. Optional integral and remote displays are available to display temperature, humidity, or temperature set point instead of CO₂. For environments occupied 24 hours per day it is recommended to periodically expose the CO₂ sensor to outside ambient air.

BENEFITS/FEATURES

- Minimize inventory and save time by combining CO₂, RH and temperature measurements into one transmitter
- Reduce installation time with field selectable Modbus and BACnet communications
- Reduces the number of devices mounted in the space with integral humidity and temperature sensors
- Requires minimal maintenance with Automatic Baseline Correction (ABC) to account for sensor drift
- Prevent tampering with physical hardware lockout
- Easily installation with optional remote display tool and simple 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
CDTA-2N000	2000 PPM	North American	No
CDTA-2N000-LCD	2000 PPM	North American	Yes
CDTA-5N000	5000 PPM	North American	No
CDTA-5N000-LCD	5000 PPM	North American	Yes

SPECIFICATIONS

Sensor (CO₂): NDIR, 15 year life expectancy; Humidity: Capacitive polymer; Temperature: Solid state band gap.
Range: CO₂: 0 to 2000 or 5000 PPM CO₂ (depending on model); Humidity: 0 to 100% RH; Temperature: 32 to 122°F (0 to 50°C).
Accuracy*: CO₂: ±40 PPM ±3% of reading 2000 PPM; ±50 PPM + 5% of reading 5000 PPM; RH: ±2% (10 to 90% RH); Temperature: ±1°C @ 25°C.
Response Time (CO₂): 2 min for 90% step change.
Temperature Limits: 32 to 122°F (0 to 50°C).
Humidity Limits: 0 to 85% RH (non-condensing).
Power Requirements: 10-42 VDC / 10-30 VAC.
Output: 2-wire RS-485, Modbus® RTU or BACnet MS/TP communication protocol.
Weight: 4.4 oz (125 g).
Compliance: BTL, CE.

*The specified CO₂ 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: CDTA-2N000-FC