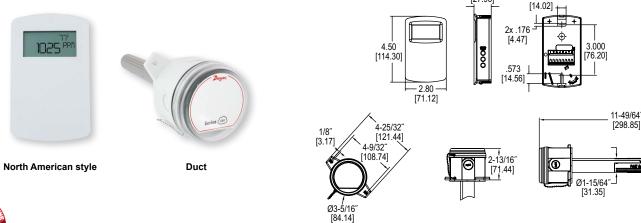
Dwyer SERIES CDT **CARBON DIOXIDE/TEMPERATURE TRANSMITTERS** NDIR CO2 Sensor, Universal Outputs, Optional Relay









The Series CDT Carbon Dioxide and Temperature Transmitters accurately monitor the CO2 concentration and temperature in indoor environments to help achieve energy savings. In order to achieve a higher level of accuracy, the Series CDT includes 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 wilding represent control of the second seco building management controller.

For applications that require visual indication, the wall mount configurations of the Series CDT can be ordered with an integral LCD display. To prevent tampering, the action of the buttons can be locked out using an internal dip switch selection.

BENEFITS/FEATURES

- Minimize inventory and save time by combining CO2 and temperature
- measurements into one transmitter
- · 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
- Reduce operation costs using a low energy, reliable, and repeatable CO₂ sensor · Simplify installation with backplate electrical connection

APPLICATIONS

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

MODEL CHART								
Example	CDT	-2	Ν	4	4	-LCD	CDT-2N44-LCD	
Series	CDT						Carbon dioxide/temperature transmitter	
Range		2 5					0 to 2000 PPM CO ₂ range 0 to 5000 PPM CO ₂ range	
Configuration			N D				North American style wall mount Duct mount	
CO ₂				4			4-20 mA / 0 to (5 or 10) VDC	
Temperature Output					04ABCDEF		None 4-20 mA / 0 to (5 or 10) VDC 10 KΩ NTC thermistor type III 10 KΩ NTC thermistor type II 3 KΩ NTC thermistor Pt100 Ω RTD Pt1000 Ω RTD 20 KΩ NTC thermistor	
Options						FC LCD RLY	Factory calibration certificate LCD display (wall only) Relay	

Model	Description
A-449	Remote LCD display allows remote indication of select Dwyer [®] wall mount transmitters for validation or certification purposes
A-449A	Remote LCD display with buttons allows remote indication and calibration of select Dwyer® wall mount transmitters for validation and certification purposes



SPECIFICATIONS Sensor: NDIR, 15 year life expectancy.

Range: CO2: 0 to 2000 or 0 to 5000 PPM (depending on model); Temperature: 32 to 122°F (0 to 50°C).

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Accuracy*: CO2: ±40 PPM + 3% of reading (2000 PPM CO2); ± 50 PPM + 5% of reading (5000 PPM CO2); RH: ±2% (10 to 90% RH) (for units configured with humidity output); Temperature: ±1°C @ 25°C. Response Time: 2 min for 90% step change. Temperature Limits: 32 to 122°F (0 to 50°C). Humidity Limits: 0 to 85% (non-condensing). Power Requirements: 16-35 VDC or 19-28 VAC. Power Consumption: Average: 2 w; Peak: 3.75 w. Output: Current: 4-20 mA (max. 500 Ω); Voltage: 0-5 VDC or 0-10 VDC (min. 500 Ω); Relay: SPST NO rated 2A @ 30 VDC; RTD or thermistor per r-t curves on page

4 (depending on model). Compliance: CE.

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

Carbon Dioxide Transmitters