



SERIES CDT | CARBON DIOXIDE/TEMPERATURE TRANSMITTERS



North American style wall mount



DSA* compliant option -S



Duct mount

FEATURES/BENEFITS

- Minimize inventory and save time by combining CO₂ and temperature measurements into one transmitter
- 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

DESCRIPTION

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 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.

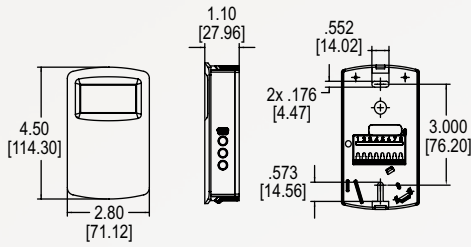
The Series CDT CO₂ transmitters are available with a -S option that provides the necessary attributes and parameters to be compliant with DSA requirements for monitoring CO₂ levels in schools. There is a front facing LED that illuminates when the CO₂ level exceeds 1100 PPM.

SPECIFICATIONS

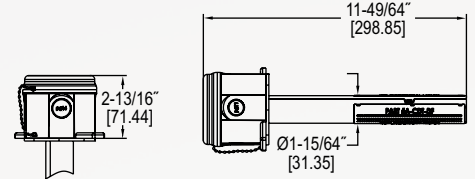
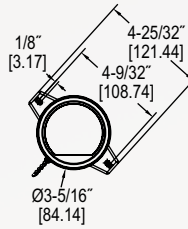
Sensor	NDIR, 15 year life expectancy.
Range	CO ₂ : 0 to 2000 or 0 to 5000 PPM (depending on model); Temperature: 32 to 122°F (0 to 50°C).
Accuracy**	CO ₂ : ±40 PPM + 3% of reading (2000 PPM CO ₂); ± 50 PPM + 5% of reading (5000 PPM CO ₂); Temperature: ±1°C @ 25°C.
Response Time	2 min for 90% step change.
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.

DIMENSIONS



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Duct mount

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

	CDT	-2	N	4	4	-LCD	
SERIES						OPTIONS	
CDT: Carbon dioxide/temperature transmitter						-FC: Factory calibration certificate	
RANGE						-LCD: LCD display (wall only)	
-2: 0 to 2000 PPM CO ₂ range						-RLY: Relay	
-5: 0 to 5000 PPM CO ₂ range						-S: School	
CONFIGURATION						TEMPERATURE OUTPUT	
N: North American style wall mount						0: None	
D: Duct mount						4: 4-20 mA / 0 to (5 or 10) VDC	
CO₂						A: 10 KΩ NTC thermistor type III	
4: 4-20 mA / 0 to (5 or 10) VDC						B: 10 KΩ NTC thermistor type II	
						D: Pt100 Ω RTD	
						E: Pt1000 Ω RTD	
						F: 20 KΩ NTC thermistor	

ACCESSORIES

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 and duct mount transmitters for validation and certification purposes

*Per Public Utilities Code 1625 (Assembly Bill 841), carbon dioxide monitors are required in all classrooms as of January 1, 2021. The Division of the State Architect is providing regulatory requirements in CALGreen so that it can enforce the provisions of statute for K-12 public schools and community colleges. While the provisions of 5.506.3.1 are not enforceable as part of the plan review and construction process, regulatory requirements that address maintenance issues provide clarity to the facility owner and reinforce the additional requirements specified in statute. LEED® is a registered trademark of the U.S. Green Building Council.

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