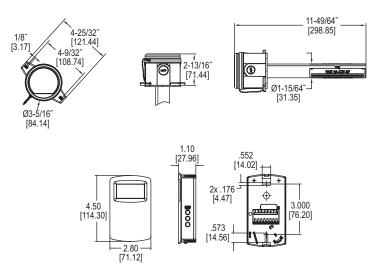


CARBON DIOXIDE/VOLATILE ORGANIC COMPOUND TRANSMITTERS

Simultaneously Outputs Both CO2 / VOC







The Series CDTV Carbon Dioxide/Volatile Organic Compound Transmitters reduce energy cost in buildings by lowering the amount of conditioned air based on the occupancy of the space. By sensing both CO₂ and VOC, the transmitter can detect fumes that may need to be exhausted during lower occupancy periods.

FEATURES/BENEFITS

- Combination VOC and CO2 outputs reduce labor and material costs
- Single beam dual wavelength NDIR CO₂ sensor allows for use in spaces that may be occupied 24 hours a day
- VOC output is correlated to be equivalent to CO₂ measurements
- Ventilate using ASHRE's occupancy-based VRP Algorithm

APPLICATIONS

- · HVAC applications in hospitals, schools, and commercial buildings
- · Demand control ventilation
- · Odor control
- · Waiting rooms or other spaces that may be occupied 24 hours a day

MODEL CHART								
Example	CDTV	-2	D	4	Α	4	-RLY	CDTV-2D4A4-RLY
Series	CDTV							Carbon dioxide/VOC transmitter
Range		2						0 to 2000 ppm CO ₂ range
		5						0 to 5000 ppm CO2 range
Configuration			D					Duct
			Ν					North American style wall mount
CO ₂ Output				4				4 to 20 mA / 0 to (5 or 10) VDC
Temperature					0			None
Output					Α			10 KΩ NTC thermistor type III
					В			10 KΩ NTC thermistor type II
					С			3 KΩ NTC thermistor
					D			Pt100 Ω RTD
					Ε			Pt1000 Ω RTD
					F			20 KΩ NTC thermistor
VOC Output						4		4 to 20 mA / 0 to (5 or 10) VDC
Options							RLY	Relay
							FC	Factory calibration certificate
							LCD	LCD display (wall only)
							COC	Certificate of calibration

SPECIFICATIONS

Range: CO2: 0 to 2000 or 0 to 5000 ppm (depending on model); VOC: 0 to 2000

ppm CO₂ equivalent.

Accuracy: CO2: ±40 ppm ±3% of reading.

Temperature Dependence: ±8 ppm / °C at 1100 ppm.

Non-Linearity: CO2: 16 ppm.

Pressure Dependence: CO₂: 0.13% of reading per mm of Hg.

Response Time: CO2: 2 minutes for 99% step change; VOC: 5 minutes.

Temperature Limits: 32 to 122°F (0 to 50°C).

Duct Air Velocity Range: 0-4000 FPM (20.32 m/s).

Power Requirements: 16 to 35 VDC / 19 to 28 VAC.

Power Consumption: Average: 2 watts; Peak: 3.75 watts.

Sensor: CO2: Single-beam, dual-wavelength NDIR; VOC: MEMS metal oxide

semiconductor

Output: Current: 0 to 20 mA, 4 to 20 mA, 0 to 10 mA, or 2 to 10 mA (depending on selection jumper, max 500 Ω); Voltage: 0 to 10 VDC, 2 to 10 VDC, 0 to 5 VDC, or 1 to 5 VDC (depending on selection jumper, min 500 Ω); Relay: SPST NO 2A @ 30 VDC

Weight: 5.6 oz (158.8 g).

Enclosure Rating: Duct mount: NEMA 4X (IP66) for housing only; Wall mount:

IP20.

Agency Approvals: CE.