CARBON DIOXIDE/VOLATILE ORGANIC COMPOUND TRANSMITTER
Simultaneously Outputs Both CO₂ / VOC

THE SERIES CDTV CARBON DIOXIDE / VOLATILE ORGANIC COMPOUND (VOC) TRANSMITTER reduces 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

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.
Power Requirements:
16 to 35 VDC / 19 to 28 VAC.
Power Consumption:
Average: 2 watts; Peak: 3.75 watts.
Sensor:
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).
Agency Approvals:
CE.

MODEL CHART

<table>
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<th>Example</th>
<th>Configuration</th>
<th>CO₂ Output</th>
<th>Temperature Output</th>
<th>VOC Output</th>
<th>Options</th>
<th>Price</th>
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