The Series CDW2 Wall Mount Carbon Dioxide Transmitters monitor ambient carbon dioxide conditions for variable air volume (VAV) on demand ventilation systems. Universal current/voltage temperature and humidity outputs are also available to reduce the number of instruments mounted on the wall. The Non-Dispersive Infrared (NDIR) sensor continuously updates the calibration through a proprietary logic feature which limits the amount of error due to drift. A duct mount and a heated outside air enclosure are available enabling the CDW2 to be used in different environments.

SPECIFICATIONS

Range:
- CO₂: 0 to 2000 PPM;
- Relative Humidity: 0 to 99%;
- Active Temperature: 32 to 122°F (0 to 50°C).

Accuracy:
- CO₂: ±30 PPM or 3% of reading, whichever is greater;
- RH: ± 2.5% (20 to 80% RH) / 3.5% (<20% and >80%);
- Active Temperature: ± 1.5°F @ 72°F (0.8°C @ 22°C);
- Thermistor: ± 1.9°F @ 60 to 95°F (1°C @ 15 to 35°C).

Temperature Dependence:
- ±0.11% FS per °F (0.2% per °C).

Pressure Dependence:
- 0.135% of reading per mm Hg.

Response Time:
- Signal updates every 5 seconds.

Warm Up Time:
- < 2 min (operational), 10 min (max. accuracy).

Temperature Limits:
- Ambient: 32 to 122°F (0 to 50°C);
- Storage: -40 to 158°F (-40 to 70°C).

Power Requirements:
- 18 to 30 VAC RMS 50/60 Hz.

Sensor:
- CO₂: Non-dispersive infrared sensor (NDIR) with ABC logic;
- RH: Capacitive polymer sensor;
- Temperature: 10 kΩ NTC thermistor.

Weight:
- 7.2 oz (204 g).

Agency Approvals:
- CE, RoHS.

ACCESSORIES

Model 1508, Duct Mount Enclosure
Model 1552, Outside Air Enclosure

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<table>
<thead>
<tr>
<th>Model</th>
<th>Temperature Output</th>
<th>RH Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDW2-2W4A0</td>
<td>10kΩ Type III Thermistor</td>
<td>N/A</td>
</tr>
<tr>
<td>CDW2-2W4A4</td>
<td>10kΩ Type III Thermistor</td>
<td>Universal Current/Voltage Output</td>
</tr>
<tr>
<td>CDW2-2W4B0</td>
<td>10kΩ Type II Thermistor</td>
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<tr>
<td>CDW2-2W4B4</td>
<td>10kΩ Type II Thermistor</td>
<td>Universal Current/Voltage Output</td>
</tr>
<tr>
<td>CDW2-2W4C0</td>
<td>3kΩ Thermistor</td>
<td>N/A</td>
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<td>Pt100 RTD</td>
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<tr>
<td>CDW2-2W4E0</td>
<td>Pt1000 RTD</td>
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<tr>
<td>CDW2-2W4F0</td>
<td>20kΩ Thermistor</td>
<td>N/A</td>
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For optional LCD display, add -LCD to the end of the model number.
(Example: CDW2-2W4A0-LCD)