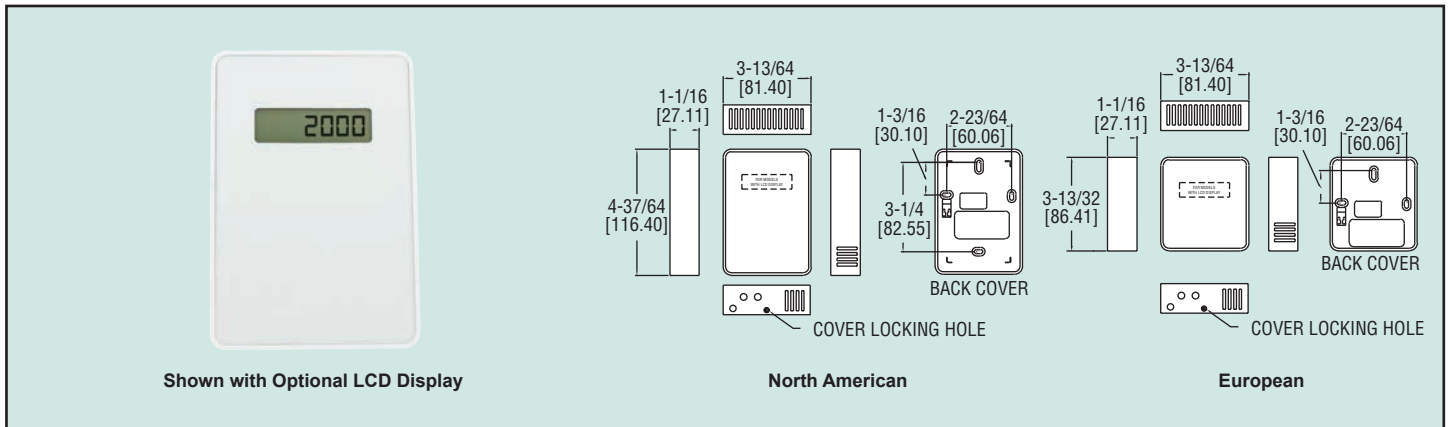




Series  
CDW2

# Carbon Dioxide Transmitters

Monitors CO<sub>2</sub>, Temperature and Humidity, Optional LCD Display



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.

**ACCESSORIES**

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

**SPECIFICATIONS**

- Range:**
  - CO<sub>2</sub>: 0 to 2000 PPM;
  - Relative Humidity: 0 to 99%;
  - Active Temperature: 32 to 122°F (0 to 50°C).
- Accuracy:**
  - CO<sub>2</sub>: ±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:**
  - CO<sub>2</sub>: 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.

Model	Temperature Output	RH Output
<b>North American Housing</b>		
CDW2-2W4A0	10kΩ Type III Thermistor	N/A
CDW2-2W4A4	10kΩ Type III Thermistor	Universal Current/Voltage Output
CDW2-2W4B0	10kΩ Type II Thermistor	N/A
CDW2-2W4B4	10kΩ Type II Thermistor	Universal Current/Voltage Output
CDW2-2W4C0	3kΩ Thermistor	N/A
CDW2-2W4C4	3kΩ Thermistor	Universal Current/Voltage Output
CDW2-2W4D0	Pt100 RTD	N/A
CDW2-2W4D4	Pt100 RTD	Universal Current/Voltage Output
CDW2-2W4E0	Pt1000 RTD	N/A
CDW2-2W4E4	Pt1000 RTD	Universal Current/Voltage Output
CDW2-2W4F0	20kΩ Thermistor	N/A
CDW2-2W4F4	20kΩ Thermistor	Universal Current/Voltage Output
<b>European Housing</b>		
CDW2-2E4A0	10kΩ Type III Thermistor	N/A
CDW2-2E4A4	10kΩ Type III Thermistor	Universal Current/Voltage Output
CDW2-2E4B0	10kΩ Type II Thermistor	N/A
CDW2-2E4B4	10kΩ Type II Thermistor	Universal Current/Voltage Output
CDW2-2E4C0	3kΩ Thermistor	N/A
CDW2-2E4C4	3kΩ Thermistor	Universal Current/Voltage Output
CDW2-2E4D0	Pt100 RTD	N/A
CDW2-2E4D4	Pt100 RTD	Universal Current/Voltage Output
CDW2-2E4E0	Pt1000 RTD	N/A
CDW2-2E4E4	Pt1000 RTD	Universal Current/Voltage Output
CDW2-2E4F0	20kΩ Thermistor	N/A
CDW2-2E4F4	20kΩ Thermistor	Universal Current/Voltage Output

For optional LCD display, add -LCD to the end of the model number.  
(Example: CDW2-2W4A0-LCD)

AIR QUALITY  
Carbon Dioxide Transmitters