CWE2 & CWV2 SERIES

Economy and Value Wall Mount CO₂ Sensors



The CWE2 and CWV2 Series of air quality sensors for living space are for use with BAS controllers designed to accept 4 to 20mA, 0 to 5 Vdc or 0 to 10 Vdc outputs. These sensors measure CO₃ levels using a dual-beam, non-dispersive infrared (NDIR) technology.

The CWE2 Series Economy sensor has an accuracy of ±30 ppm ±3% of measured value, features 2-wire 4 to 20mA and 3-wire voltage outputs, and is available with optional temperature output.

The CWV2 Value sensor with an accuracy of ±40 ppm ±5.5% of measured value, is ideal for bid-spec applications.

2-Wire 4-20 mA Output

CWE2 models offer 2-wire current outputs...lower installation costs

Self-calibrating

Economy Sensor

Competitively-priced sensors

ideal for bid-spec

Innovative self-calibration algorithm...easy to maintain

Easy to install

Large wiring terminals on baseplate and snap-on covers with security screw simplify installation

Field selectable

Field-selectable outputs for operation flexibility

APPLICATIONS

- · Controlling ventilation in response to occupancy
- Office buildings, conference rooms, schools, retail stores, etc.

Facilitating compliance with ASHRAE 62.1 standard for air quality

SPECIFICATIONS

OPERATING ENVIRONMENT

Input Power	Class 2; 20 to 30 Vdc, 24 Vac, 50 to 60 Hz
Max. Current	CWE2: 20 mA CWV2: 45 mA
Analog Output	Selectable 4 to 20 mA, 0 to 5 V, 0 to 10 V
Operating Temperature Range	0 to 50 °C (32 to 122 °F)
Operating Humidity Range	0 to 95% RH non-condensing
Housing Material	High-impact ABS plastic
Terminal Block Torque	0.5 to 0.6 N-m (0.37 to 0.44 in-lbf)
IP Rating	IP 30

CO, TRANSMITTER

Sensor Type	Dual-beam, non-dispersive infrared (NDIR), diffusion sampling
Output Range	0 to 2000 ppm
Accuracy	CWE2: ±30 ppm ±3% of measured value CWV2: ±40 ppm ±3.5% of measured value
Repeatability	CWE2: ±20 ppm ±1% of measured value CWV2: ±30 ppm ±2.5% of measured value
Response Time	≤75 seconds for 90 degree step change
Startup Time	CWE2: ≤20 seconds
Max. Load Resistance*	CWE2: $100 \Omega \text{ at } 20 \text{Vdc}$ $250 \Omega \text{ at } 24 \text{Vdc}$ $500 \Omega \text{ at } 30 \text{Vdc}$

WIRING TERMINALS

Terminal Blocks	Screw terminals, 18-24 AWG
Screw Terminal Torque	0.2 N-m (2.0 in-lbF) max.

WARRANTY

CWE2: 3 years **Limited Warranty** CWV2: 1 year

COMPLIANCE INFORMATION

UL 916, European conformance CE: EN61000-6-2 EN61000-6-3 EN61000 Series - industrial immunity EN 61326-1 FCC Part 15 Class B, REACH, RoHS, RCM (Australia), ICES-003 (Canada)

HQ0007691.D 0421



Agency Approvals

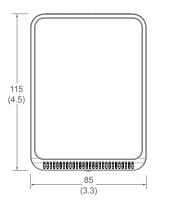




*Applicable for CWE2 4-20 mA current mode only. If load parameters are not met, product

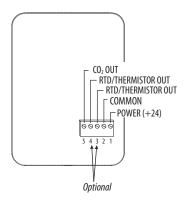
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DIMENSIONAL DRAWING

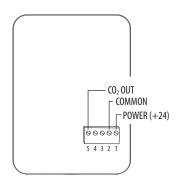


CWE2 VOLTAGE OUTPUT

Wiring Diagram



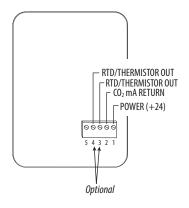
CWV2 Wiring Diagram



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CWE2 CURRENT OUTPUT

Wiring Diagram



ORDERING INFORMATION

