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 CO, 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

Economy Sensor Competitively-priced sensors

ideal for bid-spec

Easy to install

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

Self-calibrating

Innovative self-calibration algorithm...easy to maintain

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
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)
CO ₂ 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 ±5.5% of measured value
Repeatability	CWE2: ±20 ppm ±1% of measured value CWV2: ±30 ppm ±4.5% of measured value
Response Time	<60 seconds for 90% step change
WIRING TERMINALS	
Terminal Blocks	Screw terminals, 18-24 AWG
Screw Terminal Torque	0.2 N-m (2.0 in-lbF) max.
WARRANTY	
Limited Warranty	CWE2: 3 years 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), EAC (Russia)



Agency Approvals





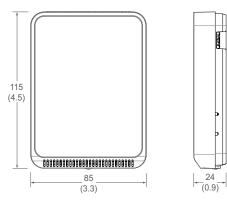


*DIP switch selectable.

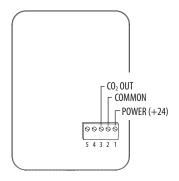


800.354.8556 | +1 503.598.4564 | sales@veris.com | intl@veris.com | www.veris.com HQ0007691.A 0420

DIMENSIONAL DRAWING

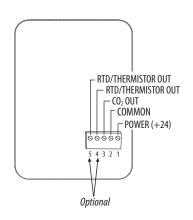


CWV2 Wiring Diagram



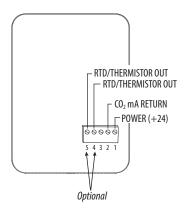
CWE2 VOLTAGE OUTPUT

Wiring Diagram



CWE2 CURRENT OUTPUT

Wiring Diagram



ORDERING INFORMATION

