# Wall CO<sub>2</sub> Sensors, Dual Analog Outputs

## **CWV Series**





## **SPECIFICATIONS**



Input Voltage	20 to 30VDC, 24VAC
Analog Output #1	4-20mA (clipped & capped) or 0-3VDC/ 0-5VDC/0-10VDC (jumper selectable)
Analog Output #2	4-20mA (clipped & capped) or 0-3VDC/ 0-5VDC/0-10VDC (jumper selectable)
Sensor Current Draw	200mA Maximum
Operating Humidity Range	0-95% RH noncondensing
Operating Temp Range	0° to 50°C (32° to 122°F)
Housing Material	High impact ABS plastic
Relay Contacts	1A@30VDC, resistive; 30W max.
CO <sub>2</sub> TRANSMITTER	
Sensor Type	Non-dispersive infrared (NDIR), diffusion sampling
Measurement Range	0-2000 ppm
Accuracy	±40 ppm ±5.5% of measured value
Repeatability	±30 ppm ±4.5% of measured value
Response Time	<60 seconds for 90% step change

EMC Conformance: Low voltage directive 2006/95/EC & EMC directive 2004/108/EC. EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper surge protection (EN 61000-6-1:2007 specification requirements).

## Dual Analog Outputs, Switchable 0-3/5/10 Volt/4-20 mA Output

### **FEATURES**

- Microprocessor-based design reduces long-term drift and calibration requirements
- Non-dispersive infrared technology (NDIR) repeatable to ±30 ppm ±4.5% of measured value...high accuracy measurements
- Innovative self-calibration algorithm...easy to maintain
- 5-year calibration interval (recommended)
- Low ambient sensitivity
- Improve comfort and facilitate compliance with ASHRAE 62.1 standard for air quality
- Demand control ventilation provides reduction in energy costs...helps with green branding initiatives
- Dual analog outputs...added user convenience
- LED indication for power and error detection...reduces time spent troubleshooting
- Switchable 0-3/5/10V output...increased flexibility
- US & European mounting holes...installation flexibility
- Field calibratable...reduce costly downtime
- 4-20mA and voltage outputs in one unit...greater versatility

### **DESCRIPTION**

The **CWV Series** is a non-dispersive infrared sensor designed for measuring CO<sub>2</sub> concentration in office and living spaces. Its 2000 ppm measurement range makes it an ideal solution for meeting ASHRAE and other ventilation control standards.

The **CWV Series** features multiple output options, microprocessor-based digital technology, and a unique self-calibration algorithm which improves long-term stability and accuracy.

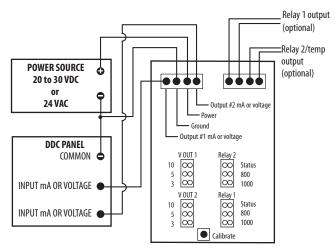
#### **APPLICATIONS**

- Controlling HVAC in response to occupancy
- Improving tenant comfort
- Schools, museums, airports, commercial buildings, etc.
- OEM applications
- Home automation
- Big-box retail
- RestaurantsC-Stores
- Bid/Spec market

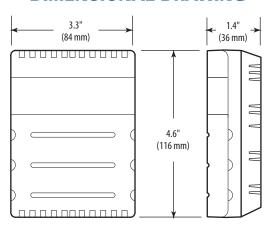
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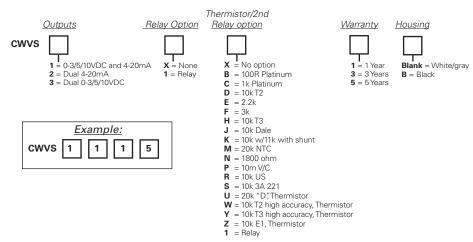
### **WIRING DIAGRAM**



## **DIMENSIONAL DRAWING**



## ORDERING INFORMATION CE



## **ACCESSORIES**

Calibration kits and gases (AA01, AA26, AA27, AA28, AA29) Handheld air quality testers (1010, 1008, 770)





1010 AA01

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