Deluxe Duct and Wall CO2 Sensors

CO2, RH & Temperature In One Unit

APPLICATIONS

- Controlling ventilation in response to occupancy
- Facilitating compliance with ASHRAE 62.1 standard for air quality
- Office buildings, conference rooms, schools, retail stores, etc.

FEATURES

Microprocessor design increases accuracy and reduces installation time

- Non-dispersive infrared technology (NDIR) repeatable to ±20 ppm ±1% of measured value
- Innovative self-calibration algorithm...easy to maintain
- 5-year calibration interval (recommended)
- Field-selectable outputs for operation flexibility

Revolutionary direct duct mounting design

- Integrated transducer and probe...eliminates the need to install a separate pickup tube
- Snap-on faceplate...no screws required, making installation and service easy
- Adjustable duct probe...simplifies installation and airflow monitoring
- CO₂, humidity, and temperature sensing all in one compact device...fewer units to buy and install

CWL Year Warran

DESCRIPTION

CDL/CWL carbon dioxide sensors maximize energy savings, while ensuring optimal ventilation. These sensors allow ventilation systems to be controlled by the amount of CO₂ present in a space. The CWL/CDL Series detect fluctuations in CO₂ levels and signal ventilation systems to provide an inlet of fresh air optimal for the space at a given time saving energy and ensuring tenant comfort.

SPECIFICATIONS

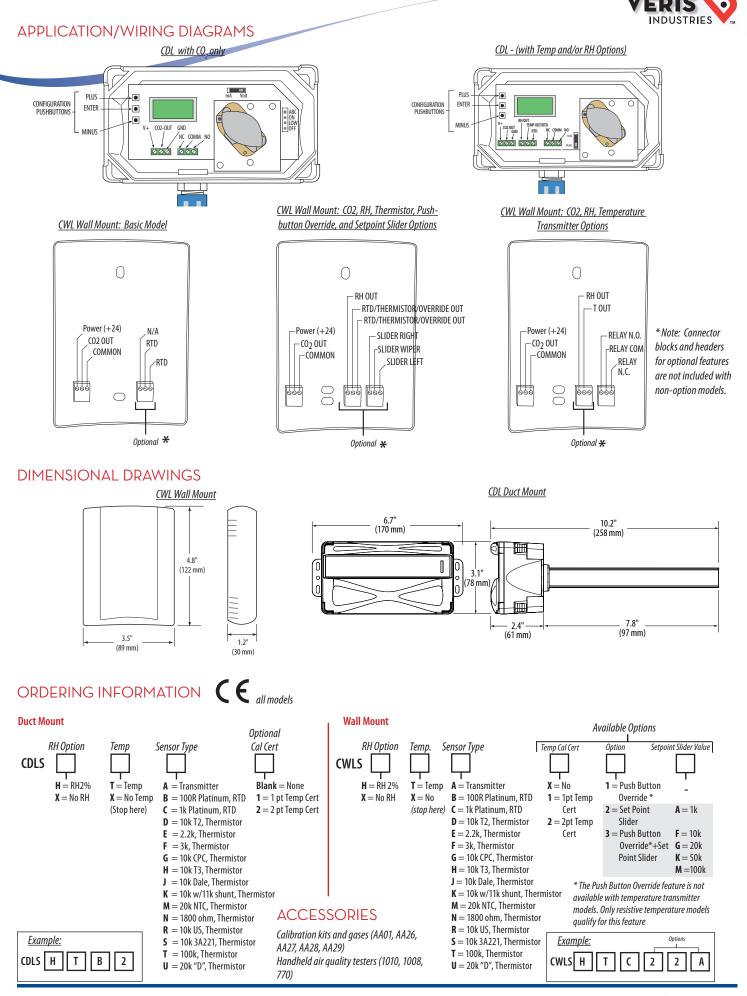
Input Power	20 to 30VDC/24VAC; 100mA max.
Analog Output	4-20mA (clipped & capped)/0-5VDC/0-10VDC (selectable)
Operating Temperature Range	CDL: 0° to 50°C (32° to 122°F)
	CWL: No humidity option: 0° to 50°C (32° to 122°F); With humidity option: 10° to 35°C (50° to 95°F)
Operating Humidity Range	0 to 95% RH (noncondensing)
Housing Material	High impact ABS plastic
CO ₂ Transmitter:	
Sensor Type	Non-dispersive infrared (NDIR), diffusion sampling
Output Range	0-2000/5000 ppm (programmable)
Accuracy	± 30 ppm $\pm 2\%$ of measured value*
Repeatability	± 20 ppm $\pm 1\%$ of measured value
Response Time	<60 seconds for 90% step change
RH Transmitter:	
HS Sensor	Fully replaceable, digitally profiled thin-film capacitive (32-bit mathematics) U.S. Patent 5,844,138
Accuracy	\pm 2% from 10 to 80% RH @ 25°C; NIST traceable multi-point calibration
Hysteresis	1.5% typical
Stability	$\pm 1\%$ @ 20°C (68°F) annually, for two years
Output Range	0-100% RH
Temperature Coefficient	$\pm 0.1\%$ RH/°C above or below 25°C (typical)
Temperature Transmitter:	
Sensor Type	CDL: Solid-state, integrated circuit; CWL: Thermistor
Accuracy	±0.5°C (±1°F) typical
Resolution	0.1°C (0.2°F)
Output Range	10° to 35°C (50° to 95°F)
Relay Contacts:	
1 Form C (SPDT) (on models without setpoint slider option)	1A@30VDC, resistive; 30W max.

RTD/Thermistors in wall packages are not compensated for internal heating of product.

EMC Conformance: Low voltage directive 2006/95/EC and 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). * Measured at NTP

Note: Rough handling and transportation may cause a temporary reduction of CO₂ sensor accuracy. With time, the ABC function will tune the readings back to the correct accuracy range. The default tuning speed is limited to 30 ppm per week.



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