

CDE & CWE Series



SPECIFICATIONS

Input Power	Class 2; 20 to 30VDC/24AC 50/60Hz; 100mA max.
Analog Output	4-20mA (clipped & capped)/0-10VDC (selectable)
Operating Temp Range	0° to 50°C (32° to 122°F)
Operating Humidity Range	0 to 95% RH noncondensing
Housing Material	High impact ABS plastic
Terminal Block Torque CDE CWE	0.5-0.6N-m (4.4-5.3 in-lbf) max. 0.2N-m (2.0 in-lbf) max.
Terminal Block Wire Size CDE CWE	24-12 AWG (0.25-2.5mm²) 28-20 AWG (0.08-0.5mm²)
Sensor Type	Non-dispersive infrared, diffusion sampling
Output Range	0-2000 ppm
Accuracy	± 30 ppm $\pm 2\%$ of measured value*
Repeatability	± 20 ppm $\pm 1\%$ of measured value
Response Time	<60 seconds for 90% step change

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

* 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.

Field-Selectable 4-20mA/0-10VDC Output

FEATURES

- Microprocessor-based design increases accuracy and reduces installation time
- Non-dispersive infrared technology repeatable to ±20 ppm ±1% of measured value...high accuracy measurements
- Innovative self-calibration algorithm...easy to maintain
- 5-year calibration interval (recommended)
- Low ambient sensitivity
- Output 4-20mA/0-10V for flexible control system interface
- 3-year factory warranty from date of purchase

DESCRIPTION

The **CDE** and **CWE** are non-dispersive infrared (NDIR) sensors designed for measuring environmental CO₂ concentration in ventilation systems and indoor living spaces. Their measurement range of 0-2000 ppm makes them compliant with ASHRAE and other standards for ventilation control

The **CWE/CDE Series** provides a user-selectable 4-20mA or 0-10VDC output for versatility. Microprocessor-based digital electronics & a unique self-calibration algorithm improves long-term stability & accuracy.

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.

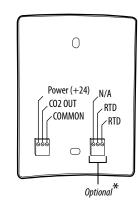
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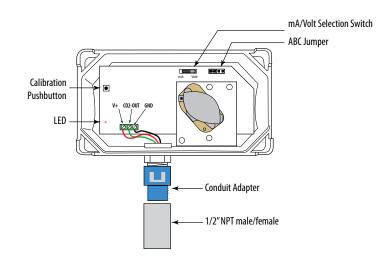


CWE Wall Mount

CDE Duct Mount



* Note: Connector blocks and headers for optional features are not included with non-option models.



DIMENSIONAL DRAWINGS

