



CRLSXX



CRL



SPECIFICATIONS

Input Power	Class 2; 20 to 30 Vdc/24 Vac 50/60 Hz; 100 mA maximum
Analog Output	4 to 20mA (clipped & capped)/0 to 5 Vdc/ 0 to 10 Vdc (selectable)
Operating Temp 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 (4.4 to 5.3 in-lbf) max.
Terminal Block Wire Size	24 to 12 AWG (0.25 to 2.5mm ²)

CO₂ TRANSMITTER

Sensor Type	Non-dispersive infrared (NDIR), diffusion sampling
Output Range	0 to 2000/5000 ppm (programmable)
Accuracy	±30 ppm ±2% of measured value**
Repeatability	±20 ppm ±1% of measured value
Response Time***	<60 seconds for 90% step change

WARRANTY

Limited Warranty	5 years
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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).

*When directly measuring outside air, ensure the temperature of the air as it reaches the sensor is between 0 and 50 °C.

**Measured at NTP

***Response time when used with 3ft long sampling tube, Veris part number AA50.

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.

SUITABLE FOR OUTSIDE AIR MEASUREMENT APPLICATIONS

DESCRIPTION

The CRLSXX remote mount carbon dioxide sensor is designed for use in HVAC control applications. Inside buildings, people are the major source of CO₂. By controlling fresh air based on CO₂ levels, energy can be saved and tenant comfort improved.

The remote capability of the CRLSXX provides flexibility for unique applications.

APPLICATIONS

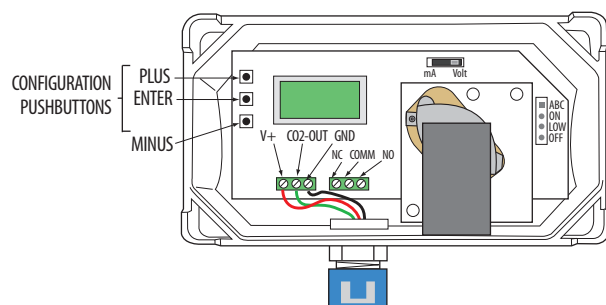
- Controlling HVAC in response to occupancy
- Improving tenant comfort
- Facilitating compliance with ASHRAE 62.1 standard for air quality
- Direct measuring of outside air or sample from other remote area

FEATURES

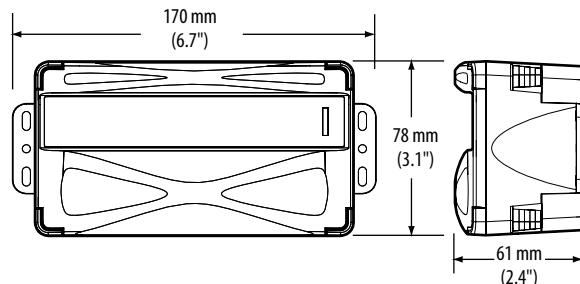
- Microprocessor-based design reduces long-term drift and calibration requirements
- Non-dispersive infrared technology (NDIR) repeatable to ±20 ppm
0 to 2000 ppm range...high accuracy measurements
- Innovative self-calibration algorithm...reliable accuracy over time
- 5-year calibration interval (recommended)
- Low ambient sensitivity
- Field-selectable 4 to 20 mA/0 to 5 V/0 to 10 V output...system flexibility
- Comes complete with AA50 3 ft long duct pickup and filtered sample tube assembly...easy to install
- LCD display for visibility
- Alarm relay output to trigger HVAC equipment at predetermined level



WIRING DIAGRAM



DIMENSIONAL DRAWING



ORDERING INFORMATION



MODEL	DESCRIPTION
CRLSXX	Remote Mount CO2 Sensor

*The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.

ACCESSORIES

Remote sample pickup kit (AA50)

Calibration kits and gases (AA01, AA26, AA27, AA28, AA29)

Handheld air quality testers (1010, 1008, 770)



AA50



1010



AA01