

## CRLSXX

Suitable for Outside Air Measurement Applications



CRL



The CRLSXX remote mount carbon dioxide sensor is designed for use in HVAC control applications. Inside buildings, people are the major source of CO<sub>2</sub>. By controlling fresh air based on CO<sub>2</sub> levels, energy can be saved and tenant comfort improved.

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

### 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 <sup>2</sup> )

#### CO<sub>2</sub> TRANSMITTER

Sensor Type	Non-dispersive infrared (NDIR), diffusion sampling
Output Range	0 to 2000/5000 ppm (programmable)
Accuracy**	±30 ppm ±2% of measured value

### NDIR

Non-dispersive infrared technology (NDIR) repeatable to ±20 ppm ±1% of measured value...high accuracy

### Sensitivity

Low ambient sensitivity

### Microprocessor based

Microprocessor-based design reduces long-term drift and calibration requirements

### Self-calibrating

Innovative self-calibration algorithm...easy to maintain. 5-year calibration interval (recommended)

### LCD

LCD display for visibility

### Field-selectable

Field-selectable 4 to 20 mA/0 to 5 V/0 to 10 V output for system flexibility

### 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

Repeatability	±20 ppm ±1% of measured value
Response Time***	<60 seconds for 90% step change

#### WARRANTY

Limited Warranty	5 years
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#### AGENCY APPROVALS



EMC Conformance: Low voltage directive 2014/35/EU and EMC directive 2014/30/EU. 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 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

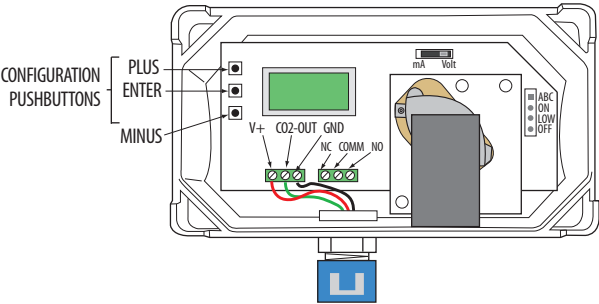
\*\*\*Response time when used with 3ft long sampling tube, Veris part number AA50.

Note: Rough handling and transportation may cause a temporary reduction of CO<sub>2</sub> 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.

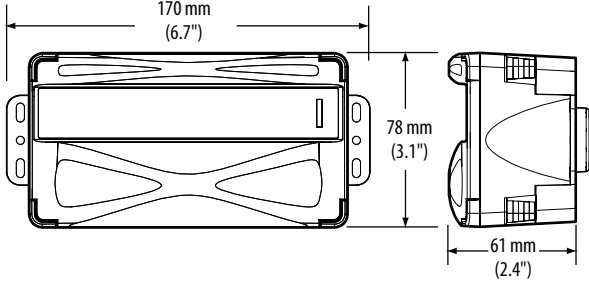
†The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.



**WIRING DIAGRAM**



**DIMENSIONAL DRAWING**



**ORDERING INFORMATION**

MODEL	DESCRIPTION
CRLSXX	Remote mount CO <sub>2</sub> sensor.

