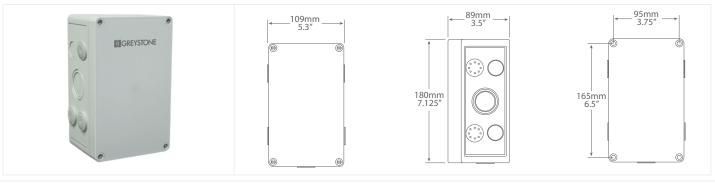


# OUTSIDE CARBON DIOXIDE DETECTOR



## CDD4 SERIES

## **PRODUCT DESCRIPTION**

The CDD4 series uses a highly accurate and reliable Non-dispersive Infrared (NDIR) sensor combined with state-of-the-art digital linearization and temperature compensated circuitry in an vented, weatherproof enclosure to monitor outside CO2, levels. A linear analog signal output of 4-20 mA, 0-5 or 0-10 Vdc is provided for connection to a building automation system. Optional features such as temperature sensor and adjustible relay output are available.

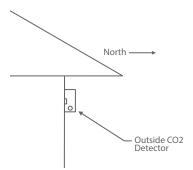
### **TYPICAL INSTALLATION**

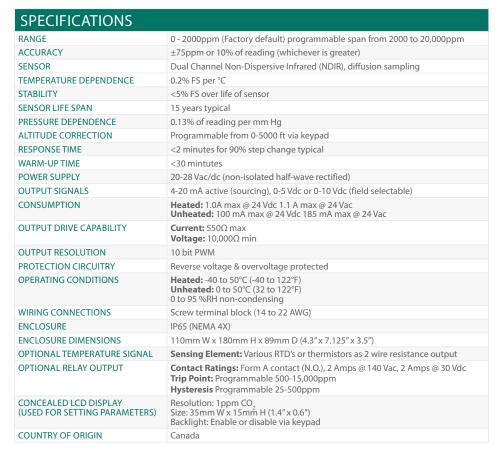
For complete installation and wiring details, please refer to the product installation instructions.

The CDD4 should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The CDD4 can be mounted directly to buildings wall face using the provided mounting holes. There are 0.85" knockouts for conduit connection.

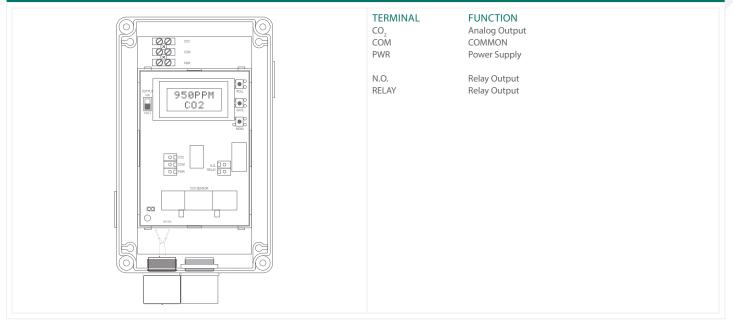
The basic CDD4 has a 3 wire configuration with a screw block terminal provided for connection to the Building Automation System.







# WIRING INFORMATION



ORDERING			PART NUMBE
PRODUCT	CDD4B	Outside Carbon Dioxide Detector, 0-20,000 ppm	
ENCLOSURE	300 400	Heated Unheated	
SENSOR	T2 T5 T6 T7 T8 T12 T13 T14 T20 T24 T59	100Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire 1801Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 3000Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C 2.252KΩ NTC Thermistor, $\pm 0.2^{\circ}$ C 1000Ω Platinum, IEC 751, 385 Alpha, thin film 1000Ω Nickel, Class B, DIN 43760 10,000Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C c/w 11,000 shunt resistor 20,000Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000Ω Type 2, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000Ω @ 25°C, $\pm 1\%$ , B = 3435 $\pm 1\%$ (25/85)	
OPTIONS	R	Relay Output	

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice

## **5-YEAR CALIBRATION GUARANTEE**

Based on the results of years of testing of ACLP software, Greystone now offers a 5-year calibration guarantee on all its CDD series wall and duct mount sensors used for CO<sub>2</sub> based ventilation control when operated in an environment that can utilize ACLP software. If the sensor is found to be out of calibration more than 150 PPM as compared to a calibration gas or recently calibrated reference, Greystone will provide a free factory calibration of the sensor if returned to Greystone. This guarantee only applies if the sensor is operated in an environment where inside levels periodically drop to outside concentrations (i.e. during evenings or weekends when there is no occupancy) as is required by ACLP software. If a space does not experience a periodic drop to outside levels (i.e. where occupancy is 24 hours, 7 days/week) a dual sensor channel should be selected.



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