

ROOM CARBON DIOXIDE TRANSMITTER CERMC Series

The CO2 sensor series uses a highly accurate and reliable nondispersive infrared (NDIR) sensor in an attractive, low-profile enclosure to monitor ambient CO2 levels for room applications. The compact dual wavelength CO2 sensor achieves excellent performance characteristics, including high accuracy and low power consumption to ensure stable long term operation. The CO2 sensor features user selectable 4-20 mA or 0-5 Vdc or 0-10 Vdc for simple integration into any building automation system. The device is also available with an optional resistive temperature sensor.

SPECIFICATIONS:

CO2 Sensor	Dual wavelength non-dispersive infrared (NDIR)	
Range	0-2000 ppm	
Accuracy	± 50 ppm + 3% of reading	
Pressure Dependency	< 1% of reading / kPa	
Response Time	2 minutes (T90)	
Warm-up Time	1 minute	
Sensor Coverage Area	100 m² (1000 ft²) typical	
Sensor Life Span	> 10 years	
Power Supply	24 Vac/dc ± 20% (non-isolated half-wave rectified)	
Consumption	80 mA max @ Vdc, 160 mA max @ 24 Vac	
Protection Circuitry		
Output Signals	4-20 mA, 0-5 Vdc, 0-10 Vdc (field selectable)	
Drive Capability	Current: 600 Ω max @ 24 Vdc	
	Voltage: 10K Ω min	
Operating Conditions	10 to 50°C (14 to 122°F), 0-90 %RH non-condensing	
Storage Conditions	30 to 70°C (-22 to 158°F), 0-85%RH non-condensing	
Wiring Conditions	Screw terminal block (14-22 AWG)	
Enclosure	ABS, UL94-V0, IP30 (NEMA 1)	
Optional Temperature Sensor Various RTDs or thermistors as a 2-wire resistance output		
Approvals	CE, RoHS	
Country of Origin	Canada	

TYPICAL INSTALLATION:

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

The room CO2 Sensor series can be mounted directly to a single gang electrical box or directly to the wall. The backplate includes many mouting hole configurations to allow for mounting on a variety of electrical boxes.

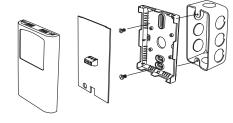
The basics CO2 Sensor has a 3 wire configuration with a screw terminal block provided for connection to the Building Automation System.

PART NUMBER SELECTED

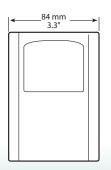
PRODUCT SELECTION INFORMATION:

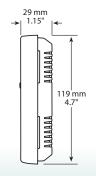
МО	DEL	Product Description		
CEF	RMC	Room Carbon Dioxide Transmitter		
		CODE	Sensor	
		00	No Temperature Selected	
		02	100 Ω Platinum RTD	
		05	1801 Ω Thermistor	
		06	3000 Ω Thermistor	
		07	10,000 Ω Thermistor, Type 3	
		08	2.252K Ω Thermistor	
		12	1000 Ω Platinum RTD	
		13	1000 Ω Nickel RTD	
		14	10,000 Ω Thermistor, Type 3 with 11K Shunt	
		20	20,000 Ω Thermistor	
		24	10,000 Ω Thermistor, Type 2	
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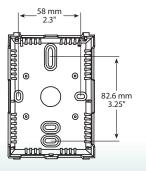
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



DIMENSIONS:







Greystone Energy Systems, Inc. 150 English Drive, Moncton, NB Canada E1E 4G7

(506)853-3057 Fax: (506)853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









