

SPACE CARBON DIOXIDE SENSOR CERMC Series

The Carbon Dioxide sensor series uses a highly accurate and reliable non-dispersive 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 both 4-20 mA and voltage outputs (0-5 / 0-10 Vdc) for simple integration into any building automation system for the improvement of energy savings and to assure good indoor air quality. 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 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	Reverse voltage and transient protected	
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 SensorVarious RTDs or thermistors as a 2-wire resistance output		
Aprovals	CE, RoHS	
Country of Origin	Canada	



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

МО	DEL	Product Description	
CEF	RMC	Space Carbon Dioxide Sensor	
		CODE	Sensor
4		00	No Temperature Selected
		02	100 Ω Platinum RTD
		05	1801 ΩThermistor
		06	3000 Ω Thermistor
		07	10,000 Ω Thermistor, Type 3
		08	2.353K Ω Thermistor
		12	1000 Ω Platinum RTD
		13	1000 Ω Nickel RTD
		14	10,000 Ω Thermistor, Type 3 with 11K Shint
		20	20,000 Ω Thermistor
		24	10,000 Ω Thermistor, Type 2
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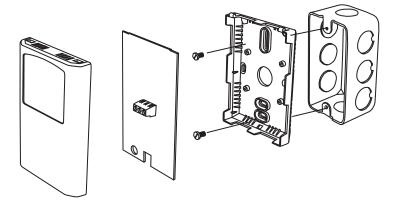
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

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.



DIMENSIONS:

