Honeywell

HCERMC Series of Space Carbon Dioxide Sensor

The HCERMC 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 device is also available with an optional resistive temperature sensor.

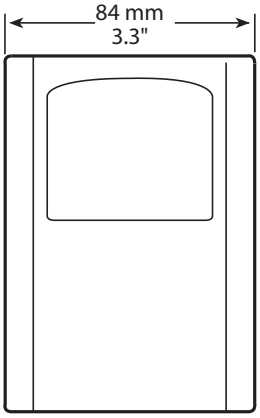
APPLICATIONS

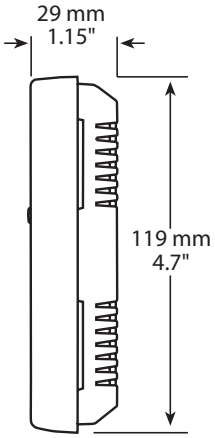
The HCERMC wall mount CO2 sensor is designed for use with electronic controllers in domestic or commercial heating and cooling systems.

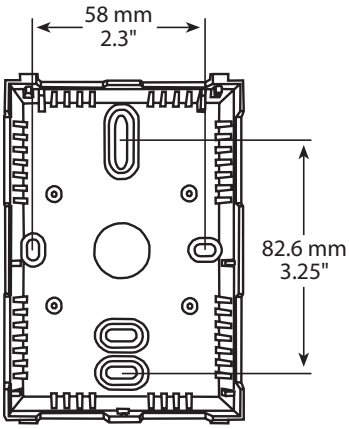
SPECIFICATIONS

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 selectbale)
Drive Capability:	**Current:** 600Ω max @ 24 Vdc **Voltage:** 10KΩ 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 4X)
Optional Temperature Sensor:	Various RTDs of thermistors as a 2 wire resistance output
Approvals:	CE, RoHS
Country of Origin:	Canada

HCERMC Series of Space Carbon Dioxide Sensor







Honeywell Building Solutions

Honeywell

North America:
1985 Douglas Drive North
Golden Valley, MN 55422-3992
+1-800-345-6770, ext. 606

Europe, Middle East, Africa & India:
Honeywell House
Arlington Business Park
Bracknell, United Kingdom RG12 1EB
+44-(0)1344-656000

North Asia:
Zhang Jiang Hi-Tech Park
No. 430 Li Bing Rd., Pudong New Area,
Shanghai, 201203, China
+86-21-2894-2000

South Asia Pacific:
2 Richardson Place
Sydney NSW 2113
+612-9353-7000

www.honeywell.com

ORDERING

MODEL	Product Description
HCERMC	Space Carbon Dioxide Sensor

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	2.353K 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

HCERMC	00

Honeywell

Printed on recycled paper containing 15% post-consumer waste.

December 2018