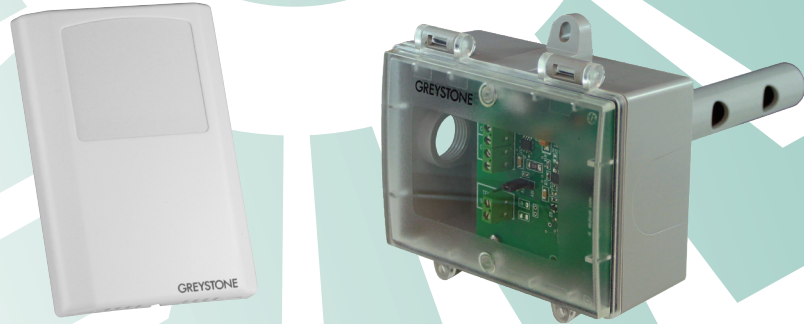


GREYSTONE ENERGY SYSTEMS INC

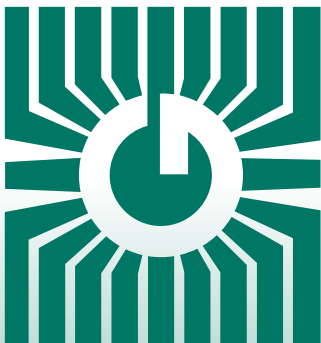
CARBON DIOXIDE TRANSMITTER CE Series



Precision Carbon Dioxide Sensing

FEATURES:

- Room or Duct models available
- Dual wavelength NDIR
- Selectable analog outputs
- Optional temperature sensor



*Peace of mind
through reliable
air quality monitoring*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

CE - CARBON DIOXIDE SENSOR

FEATURES:

The CE series uses a highly accurate and reliable non-dispersive infrared (NDIR) sensor in an attractive, wall or duct mount enclosure to monitor return air CO2 levels for indoor 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 CE 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 Coverage Area **Room:** 100 m² (1000 ft²) typical
 Sensor Life Span >10 years
 Power Supply 24 Vac/dc $\pm 20\%$
 (non-isolated half-wave rectified)
 Consumption 80 mA max @ 24 Vac, 160 mA max @ 24 Vac
 Protection Reverse voltage and transient protected
 Output Signals 4-20 mA, 0-5 Vdc, 0-10 Vdc
 (field selectable)
 Drive Capability **Current:** 600 ohms max @ 24 Vdc
Voltage: 10 Kohms 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)
 Enclosures **Room:** ABS, UL94-V0, IP30 (NEMA 1)
 84 mm W x 119 mm H x 29 mm D
 (3.3" x 4.6" x 1.1")
Duct: Polycarbonate, UL94-V0, IP65(NEMA 4X)
 112 mm W x 117 mm H x 53 mm D
 (4.4" x 4.6" x 2.1")
Duct Probe: 152 mm L x 21.5 mm Diameter
 (6" x 0.88")
 Operational Temperature Sensor Various RTDs or thermistors as a
 2-wire resistance output
 Approvals CE, RoHS
 Country of Origin Canada

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
CERMC	Room - Carbon Dioxide Sensor, Continental Enclosure
CEDT	Duct - Carbon Dioxide Sensor

CODE	Enclosure (Not Available with Room Option)
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland fitting

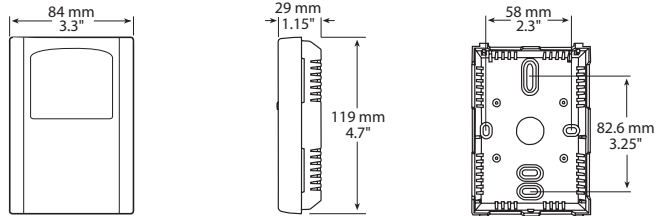
CODE	Temperature Option
00	No Temperature Selected
02	100 Ω Platinum RTD
05	1801 Ω Thermistor
06	3000 Ω Thermistor
07	10,000 Ω Thermistor, Type 3
08	2.252 K Ω Thermistor
12	1000 Ω Platinum RTD
13	1000 Ω Nickel RTD
14	10,000 Ω Thermistor, Type 3 with 11K Shunt
20	20,000 Ω Thermistor
24	10,000 Ω Thermistor, Type 2

CEDT B 00

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

DIMENSIONS:

ROOM



DUCT

