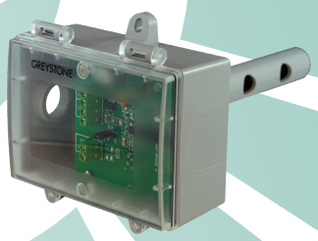
GREYSTONE
ENERGY SYSTEMS INC

DUCT CARBON DIOXIDE TRANSMITTER
CEDT Series

The CO2 sensor series uses a highly accurate and reliable non-dispersive infrared (NDIR) sensor in a 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 CO2 sensor features user selectable 4-20 mA or 0-5 Vdc or 0-10 Vdc for simple integration into any building automation system. A weatherproof, polycarbonate enclosure with an air sampling probe is provided for electrical connections.



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	Polycarbonate, UL94-V0, IP65 (NEMA 4X) F style includes thread adapter (1/2" NPT to M16) and cable gland fitting
Probe Dimensions	152 mm L x 21.5 mm Diameter (6" x 0.88")
Optional Temperature Sensor	Various RTDs or thermistors as a 2-wire resistance output
Approvals	CE, RoHS
Country of Origin	Canada

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
CEDT	Duct Carbon Dioxide Sensor

CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland fitting

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

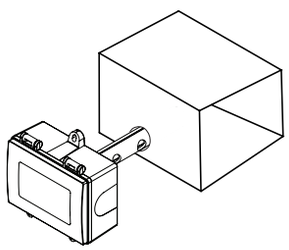
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

TYPICAL INSTALLATION:

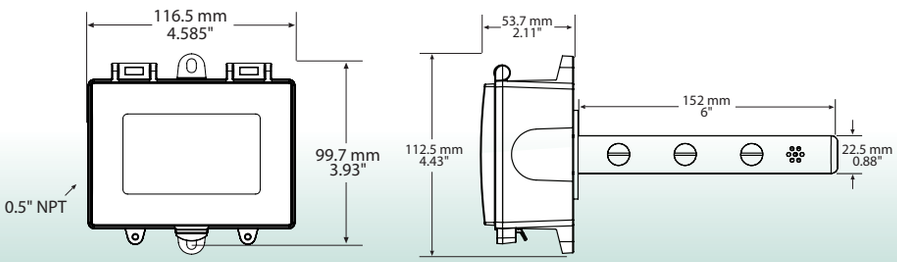
For complete installation and wiring details, please refer to the product installation instructions.

The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

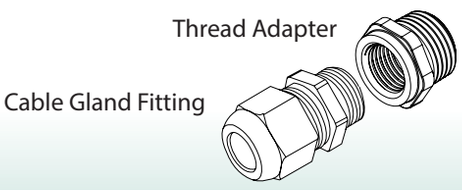
The enclosure provides mounting tabs for ease of installation.



DIMENSIONS:



Included with F style enclosure



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