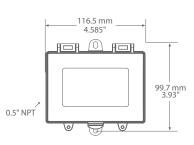
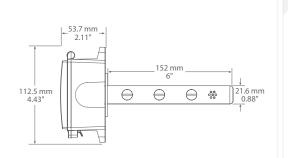


DUCT CARBON DIOXIDE TRANSMITTER







CEDT SERIES

PRODUCT DESCRIPTION

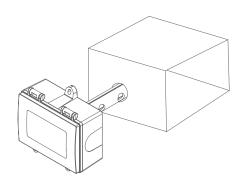
The CEDT series of CO $_2$ sensor uses a highly accurate and reliable Non-Dispersive Infrared (NDIR) sensor in a duct mount enclosure to monitor return air CO $_2$ levels for indoor applications. The compact dual wavelength CO $_2$ sensor achieves excellent performance characteristics, including high accuracy and low power consumption to ensure stable long term operation. The CO $_2$ sensor features user selectable 4-20 mA or 0-5 Vdc or 0-10 Vdc for simple integration into any building automation system. A polycarbonate enclosure with a hinged and gasketed cover is provided for electrical connections.

TYPICAL INSTALLATION

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

The CEDT sensor installs on the outside of a return air duct with the sampling tube inserted into the duct. Mount the sensor in an easily accessible location in a straight section of duct at least five feet from corners and other items that may cause disturbances in the air flow. Avoid areas with vibrations or rapid temperature changes.

The enclosure provides mounting tabs for ease of installation.



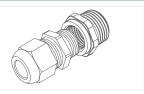
SPECIFICATIONS			
CO ₂ SENSOR	Dual channel non-dispersive infrared (NDIR)		
RANGE	0-2000 ppm		
ACCURACY	±(30ppm +3% of reading)		
TEMPERATURE DEPENDENCY	±2.5 ppm/°C		
RESPONSETIME	20 seconds (T63)		
WARM-UP TIME	1 minute		
SENSOR LIFE SPAN	>15 years		
POWER SUPPLY	24 Vac/dc ±15% (non-isolated half-wave rectified)		
CONSUMPTION	80 mA max @ 24 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 @ 24 VDC	Current: 600Ω maximum Voltage: 10 KΩ minimum		
OPTIONAL TEMPERATURE SENSOR	Various thermistors or RTD's as a 2 wire resistance output		
OPERATING CONDITIONS	0 to 50°C (32 to 122°F), 0-90 %RH non-condensing		
STORAGE CONDITIONS	-40 to 70°C (-40 to 158°F), 0 to 85 %RH non-condensing		
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)		
ENCLOSURE	B: Polycarbonate, UL94-V0, IP65 (NEMA 4X) F: Same as B with thread adapter (1/2" NPT to M16) and cable gland fitting		
PROBE	152mm L x 21.6mm D (6" x 0.85")		
APPROVALS	CE, RoHS		
COUNTRY OF ORIGIN	Canada		

This CO_2 sensor incorporates a Self Calibration feature to correct CO_2 sensor drift. This CO_2 sensor is recommended for applications where the CO_2 level will be close to normal (400 ppm) at least one hour per day. If the monitored space is occupied 24 hours or consistently maintains higher levels of CO_2 level, the CD2 Series is recommended.

ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION



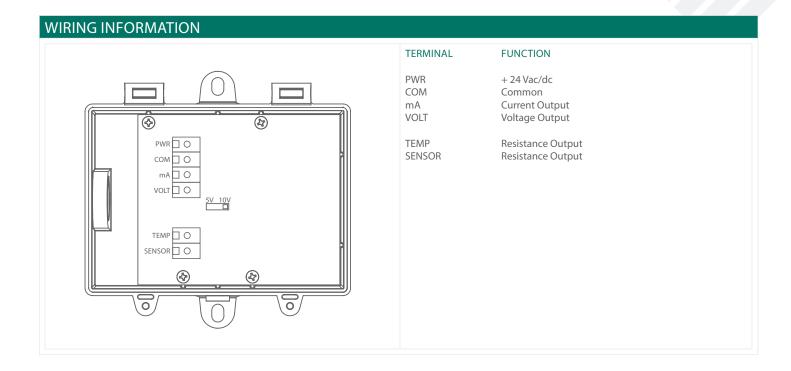




CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16





ORDERING			PART NUMBER
PRODUCT	CEDT	Duct Carbon Dioxide Transmitter	CEDT
ENCLOSURE	B F	Polycarbonate with hinged and gasketed cover Same as B, with thread adapter and cable gland fitting	
SENSOR	00 02 05 06 07 08 12 13 14 20 24	No temperature selected 100Ω Platinum RTD 1801Ω Thermistor 3000Ω Thermistor $10,000\Omega$ Thermistor, type 3 $2.252K\Omega$ Thermistor 1000Ω Platinum RTD 1000Ω Nickel RTD $10,000\Omega$ Thermistor, Type 3 with $11K$ shunt resistor $20,000\Omega$ Thermistor, Type 3 with $11K$ shunt resistor $10,000\Omega$ Thermistor, Type 2 $10,000\Omega$ Thermistor, Type 2 $10,000\Omega$ $25^{\circ}C$, $\pm 1\%$, $B = 3435 \pm 1\%$ $(25/85)$	

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

