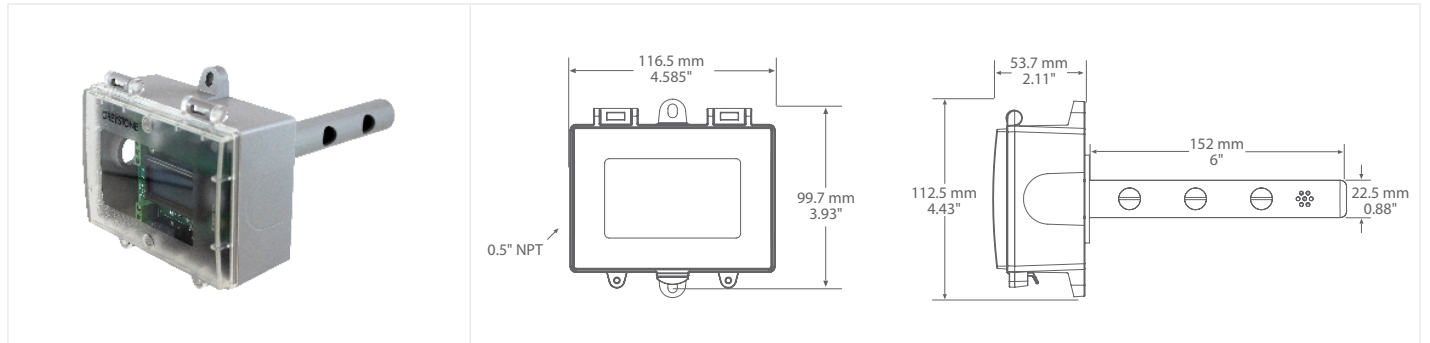




DUCT CARBON DIOXIDE TRANSMITTER



CDDT SERIES

PRODUCT DESCRIPTION

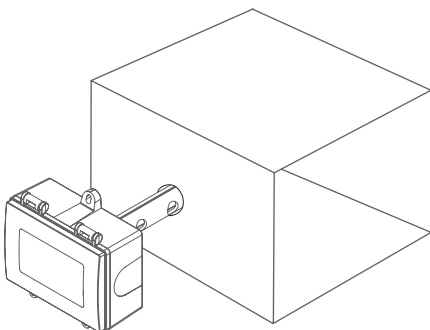
The CO₂ transmitter uses Infrared Technology to monitor CO₂ levels and outputs a linear 4-20 mA or 0-5/0-10 Vdc signal. Options include an LCD, a control relay and a resistive temperature sensor. Features include a back-lit LCD and user menu for easy installation.

TYPICAL INSTALLATION

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

The duct type 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

POWER SUPPLY	20 - 28 Vac/dc (non-isolated half-wave rectified)
CONSUMPTIONS	Current: 120 mA max @ 24 Vdc, 212 mA max @ 24 Vac Voltage: 79 mA max @ 24 Vac, 129 mA max @ 24 Vac
OUTPUT SIGNALS	4 - 20 mA active (sourcing) or 0-5 Vdc / 0-10 Vdc (field selectable)
OUTPUT DRIVE CAPABILITY	Current: 550 Ω maximum Voltage: 5K Ω minimum
OUTPUT RESOLUTION	10 bit PWM
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected, overvoltage protected
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)
EXTERNAL DIMENSIONS	116.5mm W x 112.5mm H x 53.7mm D (4.585" x 4.43" x 2.11")
ENCLOSURE	IP65 (NEMA 4X)
LCD	Resolution: 1 ppm CO ₂ Size: 35mm W x 15mm H (1.4" x 0.6") Backlight: Enable or disable via keypad
MEASUREMENT TYPE	Sensor 1: Non-Dispersive Infrared (NDIR), diffusion sampling Sensor 2: Dual Channel, Non-Dispersive Infrared (NDIR), diffusion sampling
MEASUREMENT RANGE	Sensor 1: 0-2000ppm Sensor 2: 0-20,000ppm, programmable span
STANDARD ACCURACY	+30ppm +3% of reading (Sensor 1) 0-2000ppm range with Auto Cal +75ppm or 10% of reading (whichever is greater) (Sensor 2) 0-20,000ppm range with dual channel
TEMPERATURE DEPENDENCE	0.2% F.S. per °C
STABILITY	Sensor 1: (0-2000ppm) 2 %F.S. over life of sensor (15 years typical) Sensor 2: (0-20,000ppm) <5 %F.S. over life of sensor
PRESSURE DEPENDENCE	0.13% of reading per mm Hg
ALTITUDE CORRECTION	Programmable from 0-5000ft via keypad
RESPONSE TIME	<2 minutes for 90% step change typical
WARM-UP TIME	<2 minutes
SENSING ELEMENT	Various RTD's or thermistors as 2 wire resistance output
CONTACT RATINGS	Form A contact (N.O.), 2 Amps @ 140 Vac, 2 Amps @ 30 Vdc
RELAY TRIP POINT	Programmable via keypad
RELAY HYSTERESIS	Programmable via keypad
APPROVALS	CE, RoHS
COUNTRY OF ORIGIN	Canada

ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION



CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16

