

CT1D Series CT1D CO2/Temp Duct Sensor

- Optional LCD display with field calibration menu
- Adjustable for ranges of 2000, 5000, or 10,000 ppm CO2
- Integrated set-point relay
- Field replaceable NDIR element













DESCRIPTION

Self-calibrating NDIR sensor for high accuracy. An optional built-in LCD display makes set up a snap, and a standard solid-state setpoint relay makes demand ventilation easy. Probe is non-directional for accurate readings and ease of installation. Dual 4-20mA and 0-10/5 vdc outputs.

APPLICATIONS

- Controlling ventilation in response to occupancy
- Facilitates compliance with ASHRAE 62.1 standard for air quality
- Offices, conference rooms, and public assembly areas









Made in the USA - 7-year Warranty

Field replaceable CO2 element for lower total lifetime cost

FEATURES

- Integrated display and push-button menus for field selectable scale, calibration, and operational modes
- Dual 4-20mA and 0-5V/0-10V output (jumper selectable)
- Integrated high-reliability solid-state set-point relay is ideal for direct control applications; easy to set up thanks to LCD
- · Non-dispersive infrared sensing element (NDIR)

- Field replaceable CO2 sensor
- 15+ year life expectancy on CO2 sensing element
- Industry leading 7-year limited warranty on electronics; NDIR module 3 years
- Selectable auto-calibration mode returns sensor to baseline values
- ±30ppm, ±3% of reading



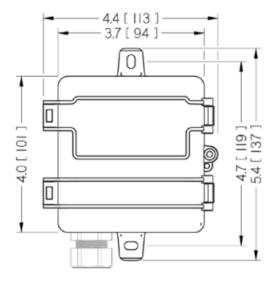
ORDERING

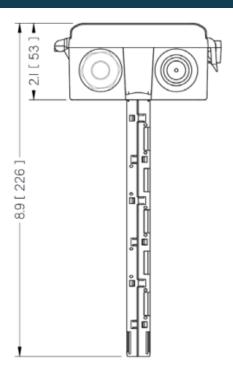
CT1D	-		3	-	
	Enclosure	Temperature	Output	Display	Dual Channel
	D= Duct H = Hose Barb	A=None B=Transmitter C=100PtRTD D=1000PtRTD E=10KType 2 F=10KType 3 G=10KW/11K H=3K I=2K2 J=1K8 K=20K L=100K	3= 4-20mA, 0-5V, 0-10V 3-Wire Connection	X= None D=Display	Blank = NDIR D = Dual Channel

To order replacement sensor elements, please consult factory.



DIMENSIONS







Warning: The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.



SPECIFICATIONS		
Power Supply		12-30VDC/24VAC(1), 100mA max.
Analog Outputs	Dual Analog Output scaling	3-wire 4-20mA and 0-5V/0-10V (2) (jumper) 0 - 2000 or 0 - 5000 ppm (selectable)
Digital Setpoint Output	Programmable	Solid-state, 1A @ 30VAC/DC, N.O.
Sensor Performance	Type Accuracy	Non-dispersive Infrared (NDIR) ±30ppm, ±3% of reading (400-2000ppm) ±50ppm, ±5% of reading (2000-5000ppm) Consult Factory for accuracy above 5000ppm
	Response time Output update rate	60 seconds to 90% reading 1 second
LCD Menu Setup Parameters	SPH, Setpoint, Hi (On point) SPL, Setpoint, Lo (Off point) SCL, Scalinq ADJ, Adjustment CAL, Calibration mode RUN, Run mode	500ppm to full-scale (800ppm default) 400ppm to full-scale-50 (700ppm default) 0-2000ppm, 0-5000ppm, 0-10000ppm (2000ppm default) Offset adjustment +/-250ppm (0 default) Automatic mode ON or OFF (default=ON) Displays CO2 in ppm
Operating Environment	Temperature Humidity	14 to 122F (-10 to 50C) 0-95% non-condensing
Enclosure	Material Dimensions	ABS/Polycarbonate $4.0' \text{ h} \times 4.4'' \text{w} \times 2.1'' \text{d} (+6.8'' \text{ probe})$

- 1. One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.
- 2. 15-30VDC/24VAC power supply voltage required for 10 volt output.

^{*} Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.