

CT10 Series

CT10 CO2 Temp Outdoor

Adjustable for ranges of 2000, 5000, or 10,000 ppm CO2

Field replaceable dual-channel NDIR element

Dual 3-wire 4-20mA and 0-5V/0-10V (selectable)

Rugged gasketed enclosure



DESCRIPTION

Featuring a gold plated dual-channel NDIR sensor for the best accuracy and the highest reliability for your outdoor or greenhouse sensing needs. An optional built-in LCD display makes set up a snap, and a standard solid-state setpoint relay makes demand ventilation simple. 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
- Outdoor or greenhouse applications



Rugged enclosure



Field replaceable CO2 element for lower total lifetime cost



Made in the USA - Industry best 7-year warranty!

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 dual-channel CO2 sensor
- 15+ year life expectancy on CO2 sensing element
- Industry leading 7-year limited warranty on electronics; NDIR module 3 years
- $\pm 30\text{ppm}$, $\pm 3\%$ of reading

ORDERING

CT1

O

Enclosure
O= Outdoor

Temperature
A= None
B= Transmitter
C= 100PtRTD
D= 1000PtRTD
E= 10K Type 2
F= 10K Type 3
G= 10K W/ 11K
H= 3K
I = 2K2
J = 1K8
K = 20K
L= 100K

3

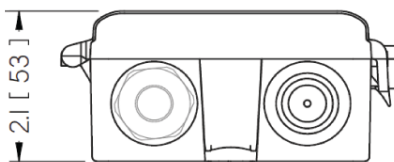
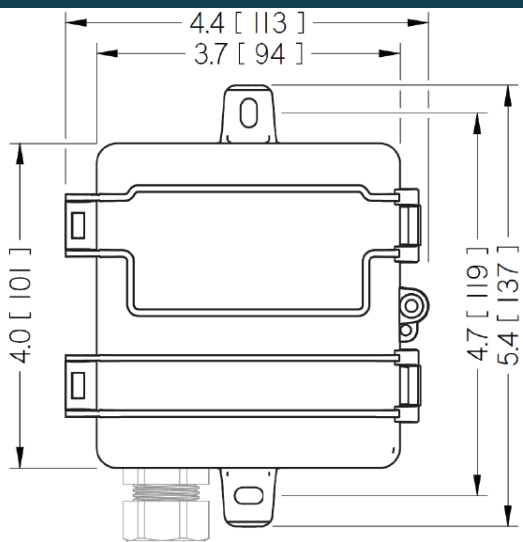
Output
3= 4-20mA,
0-5V, 0-10V
3-Wire
Connection

Display
X= None
D=Display

To order replacement sensor elements, please consult factory.

* All outdoor CT1O models use dual channel elements for high reliability!

DIMENSIONS



Units: in [mm]
Not to scale



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	3-wire 4-20mA and 0-5V/0-10V (2) (jumper)
	Output scaling	0 - 2000 or 0 - 5000 ppm (selectable)
Digital Setpoint Output	Programmable	Solid-state, 1A @ 30VAC/DC, N.O.
Sensor Performance	Type	Non-dispersive Infrared (NDIR)
	Accuracy	±30ppm, ±3% of reading (400-2000ppm)
		±50ppm, ±5% of reading (2000-5000ppm)
	Response time	60 seconds to 90% reading
LCD Menu Setup Parameters	Output update rate	1 second
	SPH, Setpoint, Hi (On point)	500ppm to full-scale (800ppm default)
	SPL, Setpoint, Lo (Off point)	400ppm to full-scale-50 (700ppm default)
	SCL, Scaling	0-2000ppm or 0-5000ppm
		(2000ppm default)
	ADJ, Adjustment	Offset adjustment +/-250ppm (0 default)
	CAL, Calibration mode	Automatic mode ON or OFF (default=ON)
Operating Environment	RUN, Run mode	Displays CO2 in ppm
	Temperature	-4 to 122F (-20 to 50C)
Enclosure	Humidity	0-95% non-condensing
	Material	Polycarbonate; aluminum tube
	Dimensions	4.0"h x 4.4"w x 2.1"d

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.

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