

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

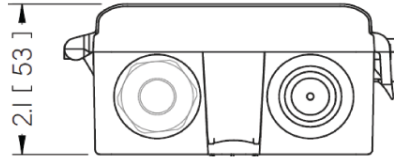
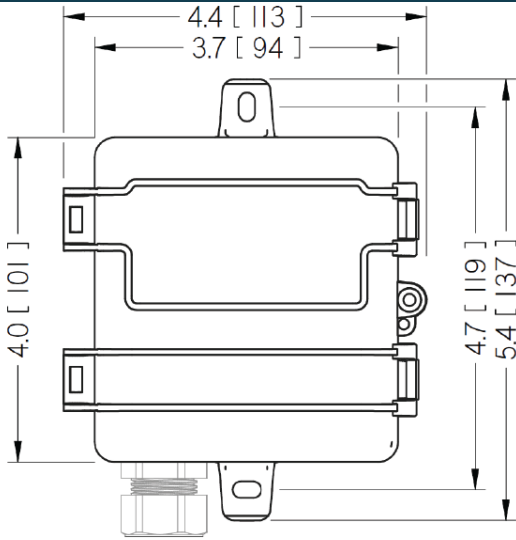
- Integrated display and push-button menus for field selectable scale, calibration, and operational modes
- Dual 4-20mA and 0-5V/0-10V output (jumper selectable)
- Integrated high-reliability solid-state set-point relay is ideal for direct control applications; easy to set up thanks to LCD
- Non-dispersive 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
- ± 30 ppm, $\pm 3\%$ of reading

ORDERING

<p>CT10</p>	<div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">O</div> <p>Enclosure O= Outdoor</p>	-	<div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div> <p>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</p>	-	<div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">3</div> <p>Output 3= 4-20mA, 0-5V, 0-10V 3-Wire Connection</p>	-	<div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div> <p>Display X= None D=Display</p>	-	<div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div> <p>Dual Channel*</p>
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To order replacement sensor elements, please consult factory.
 * All outdoor CT10 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
	Output update rate	1 second
LCD Menu Setup Parameters	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)
	RUN, Run mode	Displays CO2 in ppm
Operating Environment	Temperature	-4 to 122F (-20 to 50C)
	Humidity	0-95% non-condensing
Enclosure	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.

* 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.