

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 0-5/0-10V (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 enclusure



Field replaceable CO2 element for lower total lifetime cost



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

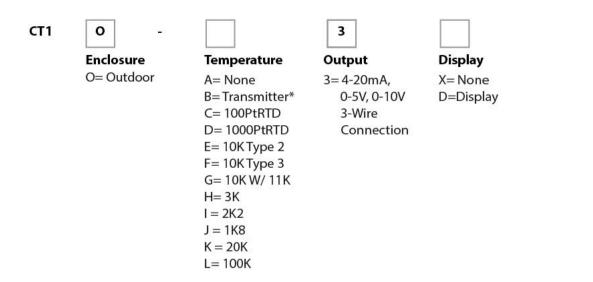
FEATURES

- 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
- ±30ppm, ±3% of reading



ORDERING



* Order B=transmitter to display temperature reading; thermistor and RTD options will not display temperature on LCD To order replacement sensor elements, please consult factory.

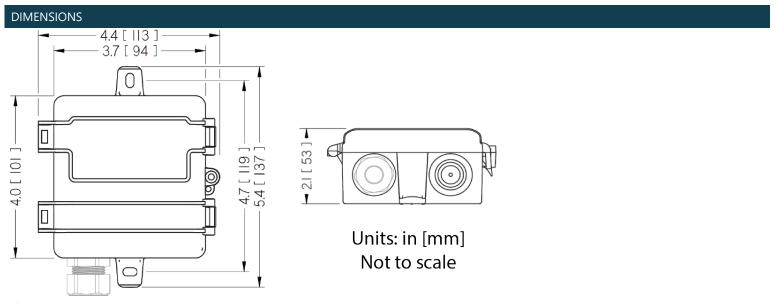
* All outdoor CT10 models use dual channel elements for high reliability!

Replacement Sensors:



Replacement Dual CO2 Sensor





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)
Set-point Relay	Programmable	Solid-state, 1A @ 30VAC/DC, N.O.
Sensor Performance	Type Accuracy (Standard)	Non-dispersive Infrared (NDIR) ±30ppm, ±3% of reading (400-2000ppm), @-10-50°C, 0-85%RH
		±50ppm, ±5% of reading (2000-5000ppm), @-10-50°C, 0-85%RH
		±100ppm, ±10% of reading (5000-10000ppm), @ 0-50°C, 0-85%RH
	Accuracy (Dual Channel)	±30ppm, ±3% of reading (400-2000ppm), @ 0-50°C, 0-85%RH
		±50ppm, ±3% of reading (2000-5000ppm), @-10-50°C, 0-85%RH
		±100ppm, ±10% of reading (5000-10000ppm), @ 0-50°C, 0-85%RH
	Drift with ABC disabled (Standard)	35 ppm/month
	Drift with ABC disabled (Dual Channel)	5 ppm/month
	Pressure Dependency	+1% reading per kPa (0.143PSI) deviation from nominal (101kPa, 14.7PSI)
	Response time	60 seconds to 90% reading
	Output update rate	1 second
	Element Operating Environment	4 to 122°F (-20 to 50°C), 0 to 95% RH
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.
- 3. Operating outside of element operating environment may result in reduced accuracy.
- 4. Time for reaching 63% of reading at 25oC and 1 m/s airflow.
- 5. It is not recommended to de-activate ABC (auto-calibration) except for continously occupied spaces or greenhouses. Drift ratings may vary based on environment.

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