

CT1000 – Gas Sensor/Controller
CT2100 – Dual Channel Gas Sensor/Controller



Simple - Rugged - Economical

AirTest offers two versatile platforms for the control of gases or refrigerants. These controller products can be configured to provide a single control and sensing package using any of AirTest's TR1000 solid-state sensor platforms. Alternatively, the controllers can be configured to work with any of AirTest's remote gas sensing transmitters (TR2000, TR3200, TR5200, TR5500).

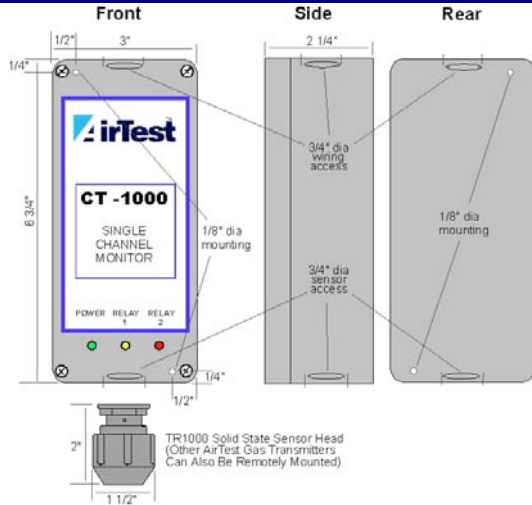
CT1000 - Controller

- ✓ Integrated sensor/controller that can provide direct actuation of fans or alarms when combined with any of AirTest's TR1000 gas transmitters. Also can be used with any of AirTest's remote gas transmitters.
- ✓ Includes two 5A relays with adjustable set points and time delays.
- ✓ Power options for 24 VAC, 120 VAC or 220 VAC.
- ✓ LED indication of Power On, Low Alarm, High Alarm.
- ✓ Multiple controllers can be daisy chained to provide multiple sensor zone control.
- ✓ Easily field calibrated.
- ✓ Rugged metal enclosure.
- ✓ CSA Listed (UL Equivalent)

CT2100 - Controller

- ✓ Provides integrated dual sensing capability for control of fans or alarms when combined with any of AirTest's TR1000 gas transmitters. Also can be used with any of AirTest's remote gas transmitters.
- ✓ Includes two sets of 10A relays for activation/alarm and fault detection relay.
- ✓ Power options for 24 VAC, 120 VAC or 220 VAC
- ✓ LED Indication of Power On, Fault Detection and 2 threshold Indicators for each gas channel.
- ✓ Multiple controllers can be daisy chained to provide multiple sensor zone control.
- ✓ Easily field calibrated.
- ✓ Rugged metal enclosure.
- ✓ CSA Listed (UL Equivalent)

CT1000 Controller Dimensions



Specifications

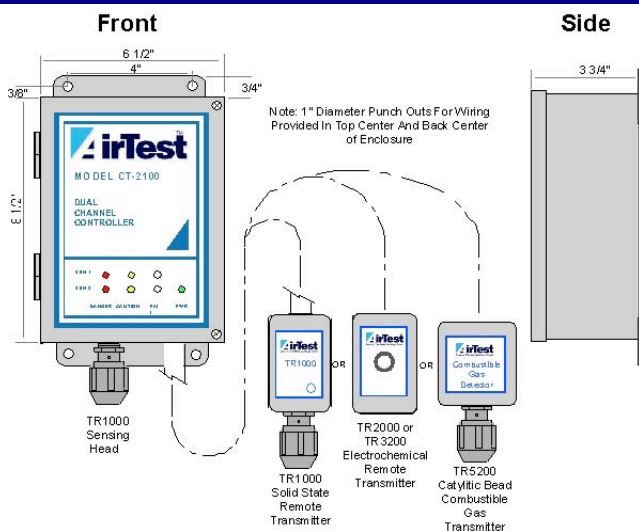
General

Sensor Type: Integrated Solid State/Remote Transmitter
Sampling Method: Diffusion
Approval: CSA/NRTL (UL Equivalent)
Enclosure Rating: NEMA 4X
Power Input: Specify 24 VAC, 120VAC, 220 VAC
Temp Operating Conditions: -4 to 122° F (-20 to 50°C),
Humidity Operating Conditions: 0 to 90% RH
Storage Conditions: -40 to 158°F (-40 to 70°C)

Other Parameters (A)

Parameter	CT1000	CT2100
Power Requirement	2.5 VA	12 VA
Low Level Relay	1 - 5A (250 VAC)	2 - 10A
High Level Relay	1 - 5A (250 VAC)	2 - 10A
Fault Level Relay	NA	1 - 10A
Relay Trip Point	Trim Pot Adjustment	Trim Pot Adjustment
Relay Time Delay	up to 16 settings @1.2 min intervals	Variety Of On/Off Delays
Sound On Relay Trip	NA	User Adjustable
Weight	22 oz/625 grams	6 lbs/2.7 kg
Material	Enameled Steel	Cast Aluminum

CT2100 Controller Dimensions



Integrated Sensor Head (B)

TR1000 Solid State Head/Transmitter				
Gas	Model	Range (ppm)	Low Trip* (ppm)	High Trip* (ppm)
CO	SS-CO	0-400	35	100
Combustibles**	SS-CB	0-40% LEL	10% LEL	20% LEL
R22	SS-832	0-3000	250	1000
R134	SS-832	0-3000	250	1000
Ammonia (NH3)	SS826	0-500	50	250

* Different trip points can be set on request
 **Specify hydrocarbon to be measured

Remote Transmitters (C)



TR2000*	TR3210*	TR5200*	TR5500*
Electrochemical	Electrochemical	Catalytic Bead*	Catalytic Bead*
Carbon Monoxide 0-200 ppm	Ammonia 0-50 ppm Hydrogen 0-10,000 ppm Hydrogen Sulfide 0-200 ppm Nitrogen Dioxide 0-10 ppm Oxygen 0-25%	Propane 0-100% LEL Butane 0-100% LEL Natural Gas 0-100% LEL Hydrogen 0-100%LEL	Propane 0-100% LEL Butane 0-100% LEL Natural Gas 0-100% LEL Hydrogen 0-100%LEL

* Separate AirTest Data Sheet Available

Ordering Guide

CTXXXX-ST-PS-MN

Controller Type	Sensor Type	Power Supply	Sensor Model No
CT1000	SS=Solid State	24 VAC	Head from Table B*
CT2100	E=Electrochemical CB=Catalytic Bead	110 VAC 220 VAC	Remote From table C* *see R side of specs

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AirTest™ Technologies Inc. specializes in the application of cost effective, state-of-the-art gas monitoring technology to ensure the comfort, security, health and energy efficiency of buildings.

