

Ammonia
Chlorine
Hydrogen
Hydrogen Sulfide
Nitrogen Dioxide
Oxygen

TR3200
Electrochemical Gas Transmitter



Quality Built - Rugged - Accurate

The TR3200 is a high accuracy Electrochemical gas sensor that can be factory configured to measure a wide range of gases of applicable to health and safety applications. This loop-powered sensor delivers a linear 4-20 ma output that is easily integrated into any building control, ventilation or alarm application. The low profile design can be attached to any single gang electrical box and features an economical replaceable sensor element.

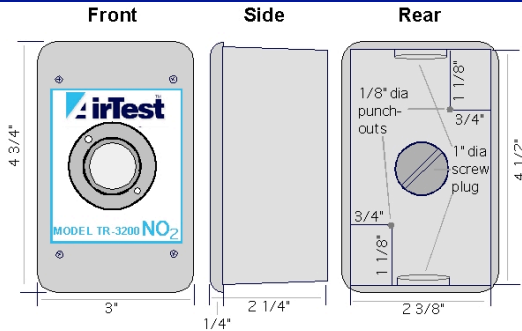
Why The TR3200?

- ✓ Two-wire, loop powered for easy integration with building control systems.
- ✓ Two year rated life.
- ✓ High accuracy sensor, +/- 5% of measurement.
- ✓ Linear output over complete range. Custom ranges available.
- ✓ Provided with a rugged NEMA 4X enclosure.
- ✓ Features an economical replacement sensor element that minimizes long term operating costs.
- ✓ Easily field calibrated.
- ✓ CSA Listed (UL Equivalent)
- ✓ Now with Lonworks® Communication Option with % of range SNVT and discrete SNVT.

AirTest Electrochemical Vs MOS/Solid State

- ✓ Significantly higher accuracy that MOS type sensor ensures dependable alarm and control.
- ✓ No temperature or humidity interference eliminates seasonal drift of sensors.
- ✓ Much less sensitive to other gases and less likely to be poisoned.
- ✓ Significantly less long-term drift means less maintenance.
- ✓ Consistent linear output between sensors means specialized operational curves and control points are not necessary.

TR3200 Dimensions



Specifications

General

Sensor Type: Electrochemical
Approval: CSA/NRTL (UL Equivalent)
Sensing Method: Diffusion
Sensor Rated Life: 2 years
Enclosure Rating: NEMA 4X
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)

Performance

Repeatability: +/- 5% of measured value
Linearity: +/- 5% of measured value
Recommended Calibration: 6 months
Response Time: T₉₀ = <1 minutes (diffusion)
Warm Up Time: < 2 minutes

Power

Input: 12-30 VDC,
Power Consumption: 20 mA

Outputs

Adjustment: Span & Zero
Output Signal: 4 - 20 mA
Terminal Wire Size: 16 – 22 AWG

Measurement Ranges

Model Number	Gas Measured	Abrv	Range (ppm)	Application
TR3200-DC-H2	Ammonia	NH3	0-50	Refrigerant
TR3200-DC-Cl2	Chlorine		0-5	Refrigerant
TR3200-DC-H2-HYT	Hydrogen	H2	0-10,001	Lead Acid Batteries
TR3200-DC-H2-HYE	Hydrogen	H2	0-10,000	Lead Acid Batteries
TR3200-DC-H2S	Hydrogen Sulfide	H2S	0-200	Petrochemical/H2O Treatment
TR3200-DC-NO2	Nitrogen Dioxide	NO2	0-10	Diesel Exhaust
TR3200-DC-O2	Oxygen	O2	0-25%	Air Displacement

Add “-Lon” suffix for Lonworks® Communicating

Optional Fan & Alarm Controllers

CT-1000 Single Channel Controller

- High & Low Relays (5A)
- 2 Adjustable Set Points
- User Adjustable Time Delay
- LED's for Power, Low & High Alarm
- Cost Effective



CT-2100 Dual Channel Controller

- Inputs For 2 Gas Transmitters
- 2 Sets of High & Low Relays (10A)
- Fault & Alarm Relay
- LED's For Power, Fault & 2 Alarms
- Adjustable Set Points
- User Adjustable Time Delay
- Cost Effective

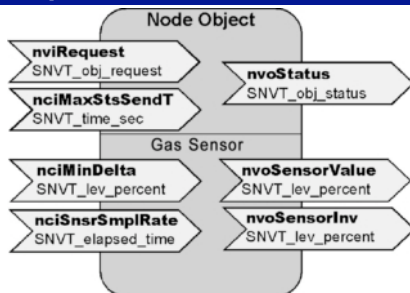


CN-9000 Custom Controller

- Custom Designed Platform
- 3 to 200 Inputs
- Variety Of Control Outputs
- Can Include LED's, Displays, Horns & Strobes
- Designed To Needed Specifications



LonWorks® Option Network Variables



Other AirTest Gas Transmitters



TR1000*	TR2000*	TR5200*	TR5500*
Solid State/MOS**	Electrochemical	Catalytic Bead	Catalytic Bead
Ammonia 0-100 ppm	Carbon Monoxide 0-200 ppm	Propane 0-100% LEL	Propane 0-100% LEL
Carbon Monoxide 0-400 ppm		Butane 0-100% LEL	Butane 0-100% LEL
Combustibles 0-1%		Natural Gas 0-100% LEL	Natural Gas 0-100% LEL
R-22 0-3,000 ppm		Methane 0-100% LEL	Methane 0-100% LEL
R-134 0-3,000 ppm		Hydrogen 0-100% LEL	Hydrogen 0-100% LEL

* Separate AirTest Data Sheet Available
 ** Non Linear Output

Note: Lonworks® option is not available for TR1000 sensors



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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.

