

LonWorks® Communicating Options Now Available!



TR3210 Electrochemical Gas Transmitter



Quality Built - Rugged - Accurate

The TR3210 is a high accuracy, Electrochemical gas sensor that can be factory configured to measure a wide range of gases 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 and easily replaceable sensor element.

Why The TR3210?

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

Inside... LonWorks® or Current Output



Current Output Version LonWorks® Output Version (-LON)

AirTest Technologies Corp. • 1520 Cliveden Ave, Delta BC V3M 6J8 • P: 604 517-3888 • 888 855-8880 • F 604 517-3900 www.AirTest.com

TR3210 Dime	ensions			Specificati	ons
Front Side Rear				General Sensor Type: Electrochemical Approval: CSA/NRTL (UL Equivalent) Sensing Method: Diffusion Sensor Rated Life: 2 years Enclosure: Impact Resistant, Waterproof 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	
Easily Replicable Sensor				Warm Up Time: < 2 minutes (diffusion)	
The sensor in the TR3210 features an economical plug-in design that allows for fast and simple sensor change out. Visit AirTest's website to create an email reminder of when it is time to order replacement sensors. www.AirTestTechnologies.com				Predicted 2 yr Calibration Drift (% 0f measured value) CL2 -20% NO2 -20% O2 -15% Power Input: 12-30 VDC, Power Consumption: 20 mA Outputs Adjustment: Span & Zero Output Signal: 4 - 20 mA or LonWorks® (specify "- LON") Terminal Wire Size: 16 - 22 AGW	
www./ unrestreennelogies.com				LonWorks® Output Network Variables	
Product Rep Gas Chlorine Nitrogen Dioxide Oxygen	Range (ppm) 0 - 5.0 0 - 10.0 0 - 25%	Transmitter* TR3210-DC-CL2 TR3210-NO2 TR3210-DC-O2	Replacement Sensor RS3210-CL2 RS3210-NO2 TR3210-O2	nvoAl nvoDl LonWorks® In	Sensor output. 0%=0 ppm, 100%=200 ppm. Values can be rescaled using nviCalibVal input network variables. Returns +163.83% on input fault condition. Sensor output interpreted as a discrete. Return ST_OFF if input is below nciDILow and ST_ON if input is above nciDIHigh. ST_Nul is input fault condition.
* For LonWorks® comminucating add suffex"-LON" LonWorks® Option Network Variables Gas Sensor				nviCalibrate nviCalibVal	 00 - Zero Cmd. Current sensor output = 0%. 01 - Span Cmd. Current sensor output = 100%. 02 - Calibrate Value #1. Current sensor output corresponds to lower value which is nviCalibVal. 03 - Calibrate Value #2. Current sensor output corresponds to upper value which is nviCalibVal. 15 - Reset calibration to factory defaults. See nviCalibrate for description. Use with command
nviCalibrate (Unsigned int) nvOAl nviCalibVal SNVT_lev_percent nviCalibVal nvODI				Lonworks® Co	02 and 03. onfiguration Network Variables
Configuration Properties nciAlOffset SNVT_lel_percent nciMinSendT SNVT_time_sec nciMinDelta SNVT_lev_percent nciMaxSendT SNVT_time_sec				nciAlOffset nciMinDelta nciMinSendT	Offset to be added to nvoAl before sent onto the network. Minimum change required before a network update. Minimum elapsed time before a network update is sent.
Distributed E	By:			Sensors That Ma	update is sent. 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.

Specifications Subject to Change Without Notice

9/26/13

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