

LonWorks® Communicating Options Now Available!

Chlorine
Hydrogen
Hydrogen Sulfide
Nitrogen Dioxide
Oxygen
Sulfur Dioxide

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

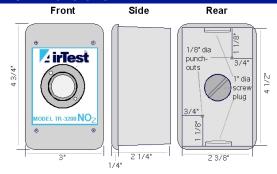




Current Output Version

LonWorks® Output Version (-LON)

TR3210 Dimensions



Easily Replicable Sensor

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.

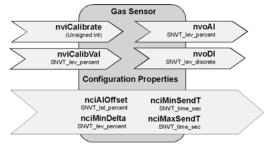
www.AirTestTechnologies.com

Product Replacement Sensor Selection

Gas	Range (ppm)	Transmitter*	Replacement Sensor
Chlorine	0 - 5.0	TR3210-CL2	RS3210-CL2
Hydrogen	0 - 2,000	TR3210-H2	RS3210-H2
Hydrogen Sulfide	0 - 200	TR3210-H2S	RS3210-H2S
Nitrogen Dioxide	0 - 10.0	TR3210-NO2	RS3210-NO2
Oxygen	0 - 25%	TR3210-O2	TR3210-O2
Sulfur Dioxide	0 - 20.0	TR3210-SO2	TR3210-SO2

^{*} For LonWorks® comminucating add suffex"-LON"

LonWorks® Option Network Variables



Distributed By:

Specifications

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 Response Time: T90 = <1 minutes (diffusion)

Warm Up Time: < 2 minutes

Predicted 2 yr Calibration Drift (% Of measured value)				
CL2	-20%	NO2	-20%	
H2	-20%	02	-15%	
HS	-20%	SO2	-20%	

Power

Input: 12-30 VDC.

Power Consumption: 20 mA

Outputs

nvoDI

Adjustment: Span & Zero

Output Signal: 4 - 20 mA or LonWorks® (specify "- LON")

Terminal Wire Size: 16 - 22 AGW

LonWorks® Output Network Variables

nvoAl 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.

LonWorks® Input Network Variables

nviCalibrate 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.

nviCalibVal See nviCalibrate for description. Use with command

02 and 03.

Lonworks® Configuration Network Variables

nciAIOffset Offset to be added to nvoAl before sent onto the

nciMinDelta Minimum change required before a network update. nciMinSendT

Minimum elapsed time before a network update is

sent.

nciMaxSendT Maximum elapsed time before a network

update is sent.

Technologies AirTest™ 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