

Analog Transmitter with Electrochemical Nitrogen Dioxide (NO₂) Sensor

Dimensions: Size	5.0 x 5.0 x 3.0 in (127 x 127 x 76 mm) without optional splash guard (Option -S)	
Weight	14 oz / 400 g	
Construction:	Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant	
Sensor: Type	Electrochemical	
Life Span	Approximately 3 years (application & exposure dependent)	
Gases Detected:	Nitrogen Dioxide (NO ₂)	
Sensor Range:	0 – 10 ppm	
System Power:	3-wire: VDC: 16-30 VDC, 3-Watts, Class 2 4-wire: VAC: 12-27 VAC, 3-VA, Class 2	Peak Power Draw: 1.68 watts* *add 0.15 watts for relay if installed
Operating Temperature:	0°C to +40°C (32°F to 104°F), -40°C (-40°F) with low temperature Option -LT	
Operating Humidity:	15 to 90% non-condensing	
Indicators:	LCD digital display, 2 line x 16 character, backlit	
Signal:	Current: Linear 4-20 mA (maximum 216 ohm load, wiring plus termination resistor @ 12VDC) Maximum 316 ohm load, wiring plus termination resistor @ 12VAC	
Relay (Option -RLY):	optional SPDT relay rated 30 volts, 2 amp max, Power Draw: 0.15 watts	
Audible:	none	
Minimum Detection:	0.1 ppm (with regular calibration maintenance of sensor)	
Accuracy:	±0.1 ppm @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error	
Repeatability:	±2% (with regular calibration maintenance of sensor)	
Sensitivity Drift	Zero: <+/-0.02 ppm (with regular calibration maintenance of sensor) Span: <2% signal per month (with regular calibration of sensor)	
Response Time (T₉₀):	<25 seconds	
Resolution:	Display resolution: 0.1ppm Sensor resolution: ±0.1 ppm	
Warm Up Time:	4 minutes after power up (to full operation)	
Cross Sensitivity:	Relative to Nitrogen dioxide = 100%, Hydrogen Sulphide = <40%, Hydrogen = <1%, Sulphur Dioxide = <1%, Ammonia = <1%, Nitric Oxide = <20%, Ethanol = <1%, Carbon Monoxide = <1%, Chlorine = <70%	
Safety:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)	
Wiring:	VDC or ground referenced VAC, 3-conductor shielded 18 awg stranded VAC 4-conductor shielded 18 awg stranded	
Sensor Mounting:	Vehicle exhaust application: 4 - 6 ft / 1.2 - 1.8 m from the floor	
Monitoring Area:	5000 ft ² / 465 m ²	
Suggested Alarm Setpoints	Low Alarm: 0.7 ppm / Mid Alarm: 1 ppm / High Alarm: 1.5 ppm	
Certifications: (tested to)	CSA-C22.2 No. 205-12, UL508 (Edition 18):2018 EMC Directive 2014/30/EU, EN 50270:2015, Type 1, EN61010 RoHS compliant circuit boards This device complies with part 15 of the FCC Rules	
Notes:	Never install gas detectors in the direct path of moving air.	

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