

Analog Transmitter with Catalytic Ammonia (NH₃) Sensor

This is not a life safety device. This is a backup redundancy detector for monitoring potentially high levels of ammonia.

Dimensions:	Size	5.0 x 5.0 x 3.0 in (127 x 127 x 76 mm) without optional splash guard
	Weight	14 oz / 400 g
Construction:		Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant
Sensor: Type		Catalytic
Life Span		Approx. 2 years (can be significantly reduced by exposure to high concentrations of silicon based products, paints and high levels of particulate material)
Gases Detected:		Ammonia (NH ₃)
Sensor Range:		0 – 3.00% vol
System Power:		3-wire: VDC: 16-30 VDC, 3-Watts, Class 2 4-wire: VAC: 12-27 VAC, 3-VA, Class 2
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 80% 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:		Optional SPDT relay rated 30 volts, 2 amp max (Option –RLY)
Audible:		None
Minimum Detection:		0.05 % vol (500 ppm)
Accuracy:		0.10 %
Repeatability:		0.10 %
Sensitivity Drift		<5 % / year (with regular calibration maintenance of sensor)
Response Time (T₉₀):		<20 seconds
Resolution:		Display resolution: 2 decimals
Warm Up Time:		Ammonia sensors should be left to warm up for 48 hours to allow the sensor to stabilize
Cross Sensitivity:		Numerous combustible gasses
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:		On or near the ceiling
Monitoring Area:		3000 ft ² / 279 m ²
Suggested Alarm Setpoint		0.5 %vol (5,000 ppm)
Certifications:		CSA-C22.2 No. 205-12, UL508 (Edition 18):2018
(tested to)		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. If exposed to more than 17 %vol Ammonia sensor will require replacement

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