



PRODUCT SPECIFICATION

CGAS-D-VLT-NH3-S Transmitter

Digital Vent Line Transmitter with Catalytic Ammonia (NH₃) Sensor

Dimensions: Size Weight	Detector with splash guard: 5.0 x 5.0 x 3.3 in (127 x 127 x 84 mm) Complete assembled product: 5.0 x 5.0 x 7.18 in (127 x 127 x 182.5 mm) 29 oz / 825 g
Construction:	Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant with 3/4" cast steel coupler and sensor holder
Sensor: Type Life Span	Catalytic 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:	4-wire: 16-30 VDC, 3W, Class 2 4-wire: 12-27 VAC, 50-60 Hz, 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
Communication	BACnet® MS/TP (version 1 rev 14) RS-485, or Modbus® RTU (version 1.1b3) RS-485
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):	<30 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 gases
Safety:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
Wiring:	VDC or VAC (ground referenced) 4-conductor shielded, 16 AWG stranded within conduit, network wiring (daisy-chain)
Suggested Alarm Setpoint	0.5% vol (5,000 ppm)
Certifications: (tested to)	CSA: C22.2 NO.205-12 UL: UL508 (Edition 18): 2018 CE: EMC Directive 2014/30/EU, EN50270:2015, Type 1, EN61010 Listed by BTL 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. Ammonia is flammable between 15% (LEL) and 28% (UEL) volume in air. This device is not designed to monitor Ammonia in applications requiring human health safety levels detection.

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