PRODUCT SPECIFICATION

LPT-M-NH3 Transmitter (low range)

Digital (Modbus®) Transmitter with Electrochemical Ammonia (NH_3) Sensor (low range)

Dimensions: Size **Weight**	5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (dimensions without optional splash guard) 5.0" X 5.0" X 3.3" (127 mm x 127 mm x 84 mm) (dimensions with optional splash guard) 14 ounces (400 g)
Construction	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (meets IP54 standard with optional splash guard installed)
Sensors: Type **Life Span**	Electrochemical Approximately 2-4 years (application dependent)
Gases Detected	Ammonia
Sensor Range	0 – 50 ppm standard. Other ranges available
System Power	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
Temperature	-20°C to +40°C (-4°F to 104°F), -40°C (-40°F) with LCD heater option
Humidity	15 to 90% non-condensing
Indicators	LCD digital display, back lit, 128 X 64 pixel graphic
Signal	Modbus® RS-485 RTU
Relay	One dry contact relay rated 2-amps @ 30v S.P.D.T.
Audible	Internal audible alarm (user controlled)
Minimum Detection	1 ppm (with regular calibration maintenance of sensor)
Repeatability	< +/- 2% (with regular calibration maintenance of sensor)
Accuracy	+/- 2 ppm @ STP, at time of calibration and at calibration concentration + calibration gas concentration error
Sensitivity drift	<5% change/year in lab air in 6-months (regular calibration of sensor)
Response time	<60 seconds T_{90} calculated from 5-minute exposure
Resolution	Display resolution 1 ppm, sensor resolution <12 ppm
Warm Up Time	5-minutes after power up (to full operation)
Cross Sensitivity	H2S 20 ppm = 2
Fusing	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
Wiring	4-wire VAC/VDC, 16 awg, 4-conductor shielded network wiring (daisy chain)
Sensor Mounting	Lighter than air, on or near the ceiling
Monitoring Area	5000 - 7000 sq. ft.
Certifications	CSA: C22.2 NO.205-12 UL: UL508 (Edition 17): 2007 CE: EMC Directive 2004/108/EC, EN50270:2006, Type-1 & EN61010 FCC
Note	Never install gas detectors in the direct path of moving air.

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