



# PRODUCT SPECIFICATION

## LPT-M-NH3 Transmitter

### Digital (Modbus®) Transmitter with Electrochemical Ammonia (NH<sub>3</sub>) Sensor

<b>Dimensions: Size</b>	5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (dimensions without optional splash guard)
<b>Weight</b>	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)
<b>Construction</b>	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (meets IP54 standard with optional splash guard installed)
<b>Sensors: Type</b>	Electrochemical
<b>Life Span</b>	Approximately 2-4 years (application dependent)
<b>Gases Detected</b>	Ammonia
<b>Sensor Range</b>	0 – 500 ppm standard. Other ranges available
<b>System Power</b>	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
<b>Temperature</b>	-20°C to +40°C (-4°F to 104°F), -40°C (-40°F) with LCD heater option
<b>Humidity</b>	15 to 90% non-condensing
<b>Indicators</b>	LCD digital display, back lit, 128 X 64 pixel graphic
<b>Signal</b>	Modbus® RS-485 RTU
<b>Relay</b>	One dry contact relay rated 2-amps @ 30v S.P.D.T.
<b>Audible</b>	Internal audible alarm (user controlled)
<b>Minimum Detection</b>	10 ppm (with regular calibration maintenance of sensor)
<b>Repeatability</b>	< +/- 2% (with regular calibration maintenance of sensor)
<b>Accuracy</b>	+/- 10 ppm @ STP, +/- 60 ppm across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
<b>Sensitivity drift</b>	<20% change/year in lab air (with regular calibration maintenance of sensor)
<b>Response time</b>	<25 seconds T <sub>90</sub> from 0 to 400 ppm
<b>Resolution</b>	Display resolution 1 ppm, sensor resolution <12 ppm
<b>Warm Up Time</b>	5-minutes after power up (to full operation)
<b>Cross Sensitivity</b>	Cl2 30 ppm = 5 , NO2 10 ppm = 6.5, SO2 200 ppm = -20, H2S 200 ppm = 120
<b>Fusing</b>	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
<b>Wiring</b>	4-wire VAC/VDC, 16 awg, 4-conductor shielded network wiring (daisy chain)
<b>Sensor Mounting</b>	Lighter than air, on or near the ceiling
<b>Monitoring Area</b>	5000 - 7000 sq. ft.
<b>Certifications</b>	CSA: C22.2 NO.205-12 UL: UL508 (Edition 17): 2007 CE: EMC Directive 2004/108/EC, EN50270:2006, Type-1 & EN61010 FCC
<b>Note</b>	Never install gas detectors in the direct path of moving air.

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