



# LPT-A-NH3 Transmitter (low range)

## Analog Transmitter with Electrochemical Ammonia (NH<sub>3</sub>) Sensors (low range)

	Standard Enclosure
<b>Dimensions: Size</b>	5.0" X 5.0" X 2.4" (127 mm x 127 mm x 60.96 mm) (with optional splash guard)
<b>Weight</b>	14 ounces (400 g)
<b>Construction</b>	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (IP54 standard with 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 – 50 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>	Current: Linear 4-20 mA (maximum 216 ohm load, wiring plus termination resistor @ 12VDC) Maximum 316 ohm load, wiring plus termination resistor @ 12VAC Voltage: 0-10 Volt, Minimum 1k ohm load
<b>Minimum Detection</b>	1 ppm (with regular calibration maintenance of sensor)
<b>Repeatability</b>	< +/- 2% (with regular calibration maintenance of sensor)
<b>Accuracy</b>	+/- 2 ppm @ STP, at time of calibration and at calibration concentration + calibration gas concentration error
<b>Sensitivity drift</b>	<5% change/year in lab air in 6-months ( regular calibration of sensor)
<b>Response time</b>	<60 seconds T <sub>90</sub> calculated from 5-minute exposure
<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>	H <sub>2</sub> S 20 ppm = 2
<b>Fusing</b>	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
<b>Wiring</b>	VDC or ground referenced VAC, 3-conductor shielded 18 awg stranded VAC 4-conductor shielded 18 awg stranded
<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-M1983 (R2009) UL: UL508 (Edition 17): 2007 CE: EMC-EN50270:2006, Type-1 & EN61000-4-2 to 11
<b>Note</b>	Never install gas detectors in the direct path of moving air.

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