



# PRODUCT SPECIFICATION LPT-M-NO2A Transmitter

## Digital (Modbus®) Transmitter with Electrochemical Nitrogen Dioxide (NO<sub>2</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>Sensor: Type</b>	Electrochemical
<b>Life Span</b>	Approximately 3 years (application dependent)
<b>Gases Detected</b>	Nitrogen Dioxide (NO <sub>2</sub> )
<b>Sensor Range</b>	0 – 10.0 ppm standard
<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 +50°C (-4°F to 122°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 (optional heater - applications to -40C)
<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>	0.1 ppm (with regular calibration maintenance of sensor)
<b>Accuracy</b>	+/- 0.1 ppm @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
<b>Repeatability</b>	+/- 2% (with regular calibration maintenance of sensor)
<b>Sensitivity Drift</b>	Zero: <0.02 ppm change/year in lab air (with regular calibration maintenance of sensor). Span: <2% signal / month
<b>Response Time</b>	<25 seconds T <sub>90</sub>
<b>Resolution</b>	Display resolution 0.1 ppm, sensor resolution: 0.1 ppm
<b>Warm Up Time</b>	5- minutes after power up (to full operation)
<b>Cross Sensitivity</b>	H2S 20 ppm = <-25, SO2 30 ppm = <-0.6, Toluene 50 ppm = <1.5, Cl2 1 ppm = 1
<b>Safety</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>	Heavier than air (vehicle exhaust application: 4'-6' from the floor)
<b>Monitoring Area</b>	3000 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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