



# PRODUCT SPECIFICATION

## LPT-M-EH2 Transmitter

### Digital (Modbus®) Transmitter with Electrochemical Hydrogen (H<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>Sensors: Type</b>	Electrochemical capillary type
<b>Life Span</b>	2-years in air
<b>Gases Detected</b>	Hydrogen
<b>Sensor Range</b>	0 – 2000 ppm
<b>System Power</b>	3-wire mode: 16 – 30 VDC 4-wire mode: 12 – 30 VAC or 16 – 30 VDC
<b>Temperature</b>	-20°C to 40°C (-4°F to 104°F)
<b>Humidity</b>	15 – 90% RH 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>	2 ppm
<b>Repeatability</b>	2% of signal
<b>Pressure Sensitivity</b>	0.009 +/- 0.003% signal/mBar
<b>Maximum Zero Shift</b>	-35 ppm (+20C to + 40C)
<b>Clean Air Output Drift</b>	< 2% signal loss per month
<b>Response Time</b>	< 50 seconds T <sub>90</sub>
<b>Cross Sensitivity</b>	CO: 300 ppm = 0.3 ppm, H <sub>2</sub> S: 15 ppm = <3 ppm, NO: 35 ppm = 10 ppm, HCN: 10 ppm = 3 ppm, C <sub>2</sub> H <sub>4</sub> : 100 ppm = 80 ppm
<b>Fusing</b>	Automatic resetting thermal
<b>Wiring</b>	4-wire VAC/VDC, 16 awg, 4-conductor shielded network wiring (daisy chain)
<b>Sensor Mounting</b>	On or near the ceiling (lighter than air) application dependent
<b>Monitoring Area</b>	5000 sq. ft. (application dependent)
<b>Calibration</b>	Every 6 months (for best repeatability & performance) or once a year (depending on application)
<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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