



PRODUCT SPECIFICATION LPT-M-H2O2 Transmitter

Digital (Modbus®) Transmitter with Electrochemical Hydrogen Peroxide (H₂O₂) Sensor

Dimensions: Size	5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (dimensions without optional splash guard)
Weight	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)
Sensor: Type	Electrochemical
Life Span	Approximately 2-3+ years (application & exposure dependent)
Gases Detected	Hydrogen Peroxide (H ₂ O ₂)
Sensor Range	0 – 5000 ppm standard (other ranges available upon request)
System Power	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
Temperature	-30°C to +50°C (-22°F to 122°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 (optional heater - applications to -40C)
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)
Accuracy	+/- 2.5% of range @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
Repeatability	<3% of signal (with regular calibration maintenance of sensor)
Sensitivity Drift	Zero: <0.1 ppm equivalent change/year in lab air. Span: <3% change/year in lab air
Response Time	<25 seconds T ₉₀ from 0 to 400 ppm CO
Resolution	Display resolution 1 ppm
Warm Up Time	2-3 minutes after power up (to full operation)
Cross Sensitivity	CO 1:1, H ₂ S 20 PPM = <200, NO ₂ 10 PPM = <50, Cl ₂ 10 ppm = <-1, NO 50 ppm = <80, SO ₂ 20 ppm = <50, H ₂ 400 ppm = <65, C ₂ H ₄ 400 ppm = <65, NH ₃ 20 ppm = <0.1
Safety	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	Slightly heavier than air 12" from floor
Monitoring Area	3000 - 5000 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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