



PRODUCT SPECIFICATION LPT-M-O3 Transmitter

Digital (Modbus®) Transmitter with Electrochemical Ozone (O₃) Sensor

Dimensions: Size Weight	5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (dimensions without optional splash guard) 0.8 lbs (363 g)
Construction:	ABS / Polycarbonate blend, water/dust tight, corrosion resistant
Sensor: Type Life Span	Electrochemical Approximately 2+ years (application dependent)
Gases Detected	Ozone (O ₃)
Sensor Range	0 – 1.0 ppm standard
System Power	3-wire: VDC: 16-30 VDC, 3-Watts, Class 2 4-wire: VAC: 12-27VAC, 3-VA, Class 2
Temperature	-20°C to +40°C (-4°F to 104°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	0.02 ppm (with regular calibration maintenance of sensor)
Accuracy	+/- 0.1 ppm @ STP, across measurement range at time of calibration with Cl2 and at calibration concentration + calibration gas concentration error
Repeatability	5% (with regular calibration maintenance of sensor)
Sensitivity Drift	Zero: +36-ppb (with regular calibration maintenance of sensor) +20 to +40C Span: <4% signal per month (with regular calibration of sensor)
Response Time	<150 seconds T ₉₀
Resolution	Display resolution 0.01 ppm, sensor resolution: 0.02 ppm
Warm Up Time	5- minutes after power up (to full operation)
Cross Sensitivity	H2S 15 ppm = -2, NO2 5 ppm = 3.5, Cl2 1 ppm = 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	Heavier than air, 6" from the floor
Monitoring Area	3000 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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