



PRODUCT SPECIFICATION

LPT-M-O2 Transmitter

Digital (Modbus®) Transmitter with Electrochemical Oxygen (O₂) Sensor

Dimensions: Size	5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (without optional splash guard)
Weight	5.0" X 5.0" X 3.3" (127 mm x 127 mm x 84 mm) (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)
Sensors: Type	Electrochemical capillary type
Life Span	36-months until 85% original output in 20.9% O ₂
Gases Detected	Oxygen
Sensor Range	0 – 25.0% Volume
System Power	16-30 VDC, 3 W, Class 2 or 12-27 VAC, 50-60 Hz, 3 VA, Class 2
Temperature	-20°C to 40°C (-4°F to 104°F)
Humidity	5 – 90% RH non-condensing, <0.7% O ₂ change 0% to 95% @ 40C
Indicators	LCD digital display, back lit, 128 X 64 pixel graphic
Signal	Modbus® RS-485 RTU
Relay	One dry contact relay rated 2-amps @ 30v S.P.D.T.
Audible	Internal audible alarm (user controlled)
Repeatability	< 2% of signal
Resolution	0.1% volume
Pressure Sensitivity	<0.1% change of output @ 20 kPa
Maximum Zero Shift	± 0.2 ppm equivalent
Clean Air Output Drift	< 2% change @ 3-months
Response Time	< 15 seconds T ₉₀ from 20.9% to 0%
Fusing	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
Wiring	4-wire VAC/VDC, 16 awg, 4-conductor shielded network wiring (daisy chain)
Calibration	Every 6 months (for best repeatability & performance) or once a year (depending on application)
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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