



PRODUCT SPECIFICATION

LPT-M-TCO Transmitter

Digital (Modbus®) Transmitter with Electrochemical Carbon Monoxide (CO) 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 6 years (application & exposure dependent)
Gases Detected	Carbon Monoxide (CO)
Sensor Range	0 – 200 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	-20°C to +50°C (-4°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
Signal	Modbus® RS-485 RTU
Relay	One dry contact relay rated 2-amps @ 30v S.P.D.T.
Minimum Detection	0.5 ppm (with regular calibration maintenance of sensor)
Accuracy	+/- 2% of range @ STP (with regular calibration maintenance of sensor)
Repeatability	< +/- 2% (with regular calibration maintenance of sensor)
Sensitivity Drift	<3% change/year in lab air, monthly test (with regular calibration maintenance of sensor)
Response Time	<25 seconds T ₉₀ from 0 to 400 ppm
Resolution	Sensor resolution: 0.3 ppm
Warm Up Time	2 to 3 minutes after power up (to full operation)
Cross Sensitivity	<0.1% H ₂ S @ 20 ppm, <0.1% NO ₂ @ 10 ppm, <0.1% Cl ₂ @ 10 ppm, <25% NO @ 50 ppm, <0.1% SO ₂ @ 20 ppm, <65% H ₂ @ 400 ppm, <65% C ₂ H ₄ @ 400 ppm, ,0.1% NH ₃ @ 20 ppm
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 lighter than air, 4 ft to 6 ft (1.2 m to 1.8 m) from floor (Breathing Zone)
Monitoring Area	7000 to 10,000 sq. ft. (application dependent)
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.

Rev. 1803-1