



PRODUCT SPECIFICATION LPT-TCO Transmitter

Analog Transmitter with Electrochemical Carbon Monoxide (CO) Sensors

Dimensions: Size	5.0" X 5.0" X 2.4" (127 mm x 127 mm x 60.96 mm) (with optional splash guard)
Weight	7 ounces (200 g)
Construction:	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (IP54 standard with 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:	2-wire: VDC: 16-30 VDC, 1 W, Class 2 3-wire: VDC: 16-30 VDC, 1 Watt, Class 2 4-wire: VAC: 12-27 VAC, 50-60 Hz, 1 VA, Class 2
Temperature:	-20°C to +50°C (-4°F to 122°F), -40°C (-40°F) with internal heater option
Humidity:	15 to 90% non-condensing
Indicators:	Solid Green: Power ON Flashing Green (50% duty cycle): Warm up Flashing Green (short OFF, long ON): Fault mode LED OFF: No power or 4-20 mA "Open Loop" (unit won't operate)
Signal:	Current: Linear 4-20 mA (Maximum 216 ohm load, wiring plus termination resistor @ 16 VDC) (Maximum 316 ohm load, wiring plus termination resistor @ 12 VAC)
Current Draw:	Maximum 25mA
Relay:	None
Audible:	None
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:	2-3 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:	VDC or ground referenced VAC, 2 or 3-conductor shielded 18 awg stranded within conduit VAC 4-conductor shielded 18 awg stranded within conduit
Sensor Mounting:	Slightly lighter than air, 4' to 6' from floor (Breathing Zone)
Monitoring Area:	7000 to 10,000 sq. ft. (application dependent)
Certifications: (tested to)	CSA: C22.2 NO.205-M1983 (R2009) UL: UL508 (Edition 17): 2007 CE: EMC-EN50270:2006, Type-1 & EN61000-4-2 to 11
Note:	Never install gas detectors in the direct path of moving air.

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