



# PRODUCT SPECIFICATION

## LPT-A-O3 Transmitter

### Analog Transmitter with Electrochemical Ozone (O<sub>3</sub>) Sensors

<b>Dimensions: Size</b>	5.0" X 5.0" X 2.1" (127 mm x 127 mm x 53 mm) (dimensions without optional splash guard)
<b>Weight</b>	0.8 lbs (363 g)
<b>Construction:</b>	ABS / Polycarbonate blend, water/dust tight, corrosion resistant
<b>Sensor: Type</b>	Electrochemical
<b>Life Span</b>	Approximately 2+ years (application dependent)
<b>Gases Detected:</b>	Ozone (O <sub>3</sub> )
<b>Sensor Range:</b>	0 – 1.0 ppm standard
<b>System Power:</b>	3-wire: VDC: 16-30 VDC, 3-Watts, Class 2 4-wire: VAC: 12-27VAC, 3-VA, Class 2
<b>Temperature:</b>	-20°C to +40°C (-4°F to 104°F), -40°C (-40°F) with LCD heater option
<b>Humidity:</b>	15 to 90% non-condensing
<b>Indicators:</b>	LCD digital display, back lit, 128 X 64 pixel graphic (optional heater - applications to -40C)
<b>Signal:</b>	Current: Linear 4-20 mA (maximum 216 ohm load, wiring plus termination resistor @ 12VDC) Maximum 316 ohm load, wiring plus termination resistor @ 12VAC Voltage: 0-10 Volt, Minimum 1k ohm load
<b>Relay:</b>	One dry contact relay rated 2-amps @ 30v S.P.D.T.
<b>Audible:</b>	Internal audible alarm (user controlled)
<b>Minimum Detection:</b>	0.02 ppm (with regular calibration maintenance of sensor)
<b>Accuracy:</b>	+/- 0.1 ppm @ STP, across measurement range at time of calibration with Cl2 and at calibration concentration + calibration gas concentration error
<b>Repeatability:</b>	5% (with regular calibration maintenance of sensor)
<b>Sensitivity Drift:</b>	Zero: +36-ppb (with regular calibration maintenance of sensor) +20 to +40C Span: <4% signal per month (with regular calibration of sensor)
<b>Response Time:</b>	<150 seconds T <sub>90</sub>
<b>Resolution:</b>	Display resolution 0.01 ppm, sensor resolution: 0.02 ppm
<b>Warm Up Time:</b>	5- minutes after power up (to full operation)
<b>Cross Sensitivity:</b>	H2S 15 ppm = -2, NO2 5 ppm = 3.5, Cl2 1 ppm = 1
<b>Safety:</b>	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
<b>Wiring:</b>	VDC or ground referenced VAC, 3-conductor shielded 18 awg stranded VAC 4-conductor shielded 18 awg stranded
<b>Sensor Mounting:</b>	Heavier than air, 6" from the floor
<b>Monitoring Area:</b>	3000 sq. ft.
<b>Certifications:</b>	CSA: C22.2 NO.205-M1983 (R2009)
<b>(tested to)</b>	UL: UL508 (Edition 17): 2007 CE: EMC-EN50270:2006, Type-1 & EN61000-4-2 to 11
<b>Note:</b>	Never install gas detectors in the direct path of moving air.

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