



## PRODUCT SPECIFICATION LPT-A-HCN Transmitter

### Analog Transmitter with Electrochemical Hydrogen Cyanide (HCN) Sensors

<b>Dimensions: Size</b>	5.0" X 5.0" X 2.4" (127 mm x 127 mm x 60.96 mm) (with optional splash guard)
<b>Weight</b>	14 ounces (400 g)
<b>Construction:</b>	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (IP54 standard with splash guard installed)
<b>Sensor: Type</b>	Electrochemical
<b>Life Span</b>	Approximately 18-24 months (application dependent)
<b>Gases Detected:</b>	Hydrogen Cyanide (HCN)
<b>Sensor Range:</b>	0 - 30 ppm standard
<b>System Power:</b>	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
<b>Temperature:</b>	-40°C to +40°C (-40°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>	0.2ppm (with regular calibration maintenance of sensor)
<b>Accuracy:</b>	+/- 0.25 ppm @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
<b>Repeatability:</b>	No data available
<b>Sensitivity Drift:</b>	<5% per month
<b>Response Time:</b>	<30 seconds T <sub>90</sub> (calculated from 2-minute exposure time)
<b>Resolution:</b>	Display resolution 0.2 ppm, sensor resolution: 0.15 ppm
<b>Warm Up Time:</b>	5- minutes after power up (to full operation)
<b>Cross Sensitivity:</b>	Arsine 0.2 = 1-ppm, Diborane 0.25 = 0.4 ppm, NO <sub>2</sub> 10 ppm = -19 ppm
<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 floor, application dependent)
<b>Monitoring Area:</b>	3000 - 5000 sq. ft. (application dependent)
<b>Certifications: (tested to)</b>	CSA: C22.2 NO.205-M1983 (R2009) UL: UL508 (Edition 17): 2007 CE: EMC-EN50270:2006, Type-1 & EN61000-4-2 to 11
<b>Note:</b>	HCN is a colourless, extremely poisonous & flammable dangerous gas that boils at slightly above room temperature

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