



PRODUCT SPECIFICATION LPT-B-HCN Transmitter

Digital (BACnet®) Transmitter with Electrochemical Hydrogen Cyanide (HCN) 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 18-24 months (application dependent)
Gases Detected	Hydrogen Cyanide (HCN)
Sensor Range	0 - 30 ppm standard
System Power	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
Temperature	-20°C to +40°C (-4°F to 104°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 (optional heater - applications to -40C)
Signal	BACnet® MS/TP
Relay	One dry contact relay rated 2-amps @ 30v S.P.D.T.
Audible	Internal audible alarm (user controlled)
Minimum Detection	0.2ppm (with regular calibration maintenance of sensor)
Accuracy	+/- 0.25 ppm @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
Repeatability	No data available
Sensitivity Drift	<5% per month
Response Time	<30 seconds T ₉₀ (calculated from 2-minute exposure time)
Resolution	Display resolution 0.2 ppm, sensor resolution: 0.15 ppm
Warm Up Time	5- minutes after power up (to full operation)
Cross Sensitivity	Arsine 0.2 = 1-ppm, Diborane 0.25 = 0.4 ppm, NO2 10 ppm = -19 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	Heavier than air (6' from floor, application dependent)
Monitoring Area	3000 - 5000 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 Listed by BTL
Note	HCN is a colourless, extremely poisonous & flammable dangerous gas that boils at slightly above room temperature

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