



PRODUCT SPECIFICATION LPT-M-HF Transmitter

Digital (Modbus®) Transmitter with Electrochemical Hydrogen Fluoride (HF) 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 Fluoride (HF)
Sensor Range	0 – 10.0 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	Modbus® RS-485 RTU
Relay	One dry contact relay rated 2-amps @ 30v S.P.D.T.
Audible	Internal audible alarm (user controlled)
Minimum Detection	0.15 ppm (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	10% of full scale (with regular calibration maintenance of sensor)
Sensitivity Drift	<10% per six months (with regular calibration maintenance of sensor)
Response Time	<90 seconds T ₉₀ (calculated from 3-minute exposure time)
Resolution	Display resolution 0.1 ppm, sensor resolution: 0.15 ppm
Warm Up Time	5- minutes after power up (to full operation)
Cross Sensitivity	No data available, sensor is highly sensitive and highly selective for acid gases
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' to 6' from floor, application dependent)
Monitoring Area	5000 sq. ft.
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	HF diffuses relatively quickly through porous substances & is a dangerous gas that boils near room temperature

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