



PRODUCT SPECIFICATION LPT-A-F2 Transmitter

Analog Transmitter with Electrochemical Fluorine (F2) 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	14 ounces (400 g)
Construction:	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (IP54 standard with splash guard installed)
Sensor: Type	Electrochemical
Life Span	Approximately 1-2 years (application dependent)
Gases Detected:	Fluorine (F2)
Sensor Range:	0 – 1.0 ppm standard
System Power:	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
Temperature:	-10°C to +40°C (14°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:	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
Relay:	One dry contact relay rated 2-amps @ 30v S.P.D.T.
Audible:	Internal audible alarm (user controlled)
Minimum Detection:	0.02 ppm (with regular calibration maintenance of sensor)
Accuracy:	+/- 0.2 ppm @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
Repeatability:	+/- 2% (with regular calibration maintenance of sensor)
Sensitivity Drift:	Zero: 0.1 ppm (on the zero reading) change/year in lab air (with regular calibration maintenance of sensor). Sensitivity: <20% of the sensitivity at 20 deg. C
Response Time:	<30 seconds T ₅₀ calculated from 4-min. exposure time with 1-ppm Cl ₂ <80 seconds T ₉₀ calculated from 4-min. exposure time with 1-ppm Cl ₂
Resolution:	Display resolution 0.1 ppm, sensor resolution: 0.1 ppm
Warm Up Time:	5- minutes after power up (to full operation)
Cross Sensitivity:	H ₂ S 1 ppm = -2, AsH ₃ 0.2 ppm = 1, Cl ₂ 10 ppm = 1-ppm = 1.4, SO ₂ 20 ppm = 0.04, CO 100 ppm = 1, H ₆ B ₂ 0.25 ppm = 0.4, HCN 1 ppm = -3, NO ₂ 10 ppm = -19, O ₃ 0.25 = 0.3,
Safety:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
Wiring:	VDC or ground referenced VAC, 3-conductor shielded 18 awg stranded VAC 4-conductor shielded 18 awg stranded
Sensor Mounting:	Slightly lighter than air 4' to 6' from floor
Monitoring Area:	3000 sq. ft.
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.

Rev: 1509-15