



# PRODUCT SPECIFICATION

## LPT-M-SIH4 Transmitter

### Digital (Modbus®) Transmitter with Electrochemical Silane (SiH<sub>4</sub>) Sensors

<b>Dimensions: Size</b>	5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (dimensions without optional splash guard)
<b>Weight</b>	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)
<b>Construction</b>	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (meets IP54 standard with optional splash guard installed)
<b>Sensors: Type</b>	Electrochemical
<b>Life Span</b>	Approximately 2 years (application dependent)
<b>Gases Detected</b>	Silane
<b>Sensor Range</b>	0 – 20 ppm standard
<b>System Power</b>	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
<b>Temperature</b>	-20°C to +45°C (-4°F to 113°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
<b>Signal</b>	Modbus® RS-485 RTU
<b>Relay</b>	One dry contact relay rated 2-amperes @ 30v S.P.D.T.
<b>Audible</b>	Internal audible alarm (user controlled)
<b>Minimum Detection</b>	1 ppm (with regular calibration maintenance of sensor)
<b>Repeatability</b>	< +/- 2% (with regular calibration maintenance of sensor)
<b>Accuracy</b>	+/- 0.3 ppm at STP at time of calibration, +/- 0.8 ppm at STP across measurement range, at time of calibration + calibration gas error
<b>Sensitivity Drift</b>	<2% signal loss / month (with regular calibration maintenance of sensor)
<b>Response Time</b>	<60 seconds T <sub>90</sub>
<b>Resolution</b>	Display resolution 0.1 ppm, sensor resolution 0.5 ppm
<b>Warm Up Time</b>	5-minutes after power up (to full operation)
<b>Cross Sensitivity</b>	SO <sub>2</sub> 5 ppm = 1, H <sub>2</sub> S 5 ppm = 8, PH <sub>3</sub> 2 ppm = 2
<b>Fusing</b>	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
<b>Wiring</b>	4-wire VAC/VDC, 16 awg, 4-conductor shielded network wiring (daisy chain)
<b>Sensor Mounting</b>	Heavier than air, 6" to 12" (15 cm to 30 cm) from the floor
<b>Monitoring Area</b>	5000 sq. ft.
<b>Certifications</b>	CSA: C22.2 NO.205-12 UL: UL508 (Edition 17): 2007 CE: EMC Directive 2004/108/EC, EN50270:2006, Type-1 & EN61010 FCC
<b>Note</b>	Never install gas detectors in the direct path of moving air.

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