



PRODUCT SPECIFICATION LPT-A-SO2 Transmitter

Analog Transmitter with Electrochemical Sulphur Dioxide (SO₂) 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 2 years (application dependent)
Gases Detected:	Sulphur Dioxide (SO ₂)
Sensor Range:	0 – 20 ppm standard
System Power:	3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA
Temperature:	-30°C to +50°C (-22°F to 122°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-amperes @ 30v S.P.D.T.
Audible:	Internal audible alarm (user controlled)
Minimum Detection:	0.1 ppm (with regular calibration maintenance of sensor)
Accuracy:	+/- 0.1 ppm @ STP, across measurement range at time of calibration with SO ₂ and at calibration concentration + calibration gas concentration error
Repeatability:	5% (with regular calibration maintenance of sensor)
Sensitivity Drift:	Zero: <+/- 0.8 ppm (with regular calibration maintenance of sensor) +20 to -20C Zero: <+/- 3 ppm (with regular calibration maintenance of sensor) +20C to +50C Span: <4% signal per month (with regular calibration of sensor)
Response Time:	<35 seconds (0-10 ppm) T ₉₀
Resolution:	Display resolution 0.01 ppm, sensor resolution: 0.02 ppm
Warm Up Time:	5- minutes after power up (to full operation)
Cross Sensitivity:	H ₂ S 20 ppm = <3, NO ₁₀ ppm = <130, Cl ₂ 10 ppm = <-60, NO 50 ppm = <+/-2, CO 400 ppm = <1.6, H ₂ 400 ppm = <0.3, C ₂ H ₄ 400 ppm = <40, NH ₃ 20 ppm = <0.1
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:	Heavier than air, 6" from the 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.

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