

CGAS-D-SO₂ Transmitter

Digital Transmitter with Electrochemical Sulphur Dioxide (SO₂) Sensor

Dimensions: Size	5.0 x 5.0 x 3.0 in (127 x 127 x 76 mm) (without optional splash guard)
Weight	14 oz / 400 g
Construction:	Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant
Sensor: Type	Electrochemical
Life Span	Approximately 2 years (application & exposure dependent)
Gases Detected:	Sulphur Dioxide (SO ₂)
Sensor Range:	0 – 20 ppm
System Power:	4-wire: 16-30 VDC, 3W, Class 2 4-wire: 12-27 VAC, 50-60 Hz, 3 VA, Class 2
Operating Temperature:	0°C to +40°C (32°F to 104°F), -40°C (-40°F) with low temperature Option -LT
Operating Humidity:	15 to 90% non-condensing
Indicators:	LCD digital display, 2 line x 16 character, backlit
Communication	Field selectable BACnet® MS/TP (version 1 rev 14) RS-485, or Modbus® RTU (version 1.1b3) RS-485
Relay:	Optional SPDT relay rated 30 volts, 2 amp max (Option -RLY)
Audible:	none
Minimum Detection:	0.1 ppm (with regular calibration maintenance of sensor)
Accuracy:	No data available
Repeatability:	±2% (with regular calibration maintenance of sensor)
Sensitivity Drift	Zero drift: <0.1 ppm equivalent change / year in lab air Sensitivity drift: <4% change /year in lab air , monthly test
Response Time (T₉₀):	<35 seconds (0-10 ppm SO ₂)
Resolution:	Display resolution: 0.1ppm Sensor resolution: <0.1 ppm
Warm Up Time:	4 minutes after power up (to full operation)
Cross Sensitivity:	H ₂ S@20ppm = <3%, NO ₂ @10ppm = <-130%, CL ₂ @10ppm = <-60%, NO@50ppm = <±2%, CO@400ppm = <1.6%, H ₂ @400ppm = <0.3%, C ₂ H ₄ @400ppm = <40%, NH ₃ @20ppm = <0.1%
Safety:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
Wiring:	VDC or VAC (ground referenced) 4-conductor shielded, 16 AWG stranded within conduit, network wiring (daisy-chain)
Sensor Mounting:	Heavier than air 6 in / 15 cm from the floor
Monitoring Area:	3000 ft ² / 279 m ²
Suggested Alarm Setpoints	Low Alarm: 2.0 ppm / Mid Alarm: 3.0 ppm / High Alarm: 5.0 ppm
Certifications (tested to):	CSA: C22.2 NO.205-12 UL: UL508 (Edition 18): 2018 CE: EMC Directive 2014/30/EU, EN50270:2015, Type 1, EN61010 Listed by BLT RoHS compliant circuit boards This device complies with part 15 of the FCC Rules
Note:	Never install gas detectors in the direct path of moving air.

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