

CGAS-D-O3 Transmitter

Digital Transmitter with Electrochemical Ozone (O₃) 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 / Life Span	Electrochemical / approximately 2 years (application & exposure dependent)
Gases Detected:	Ozone (O ₃)
Sensor Range:	0 – 1 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	BACnet® MS/TP (version 1 rev 14) RS-485, or Modbus® RTU (version 1.1b3) RS-485
Relay:	not available
Audible:	none
Minimum Detection:	0.02 ppm (with regular calibration maintenance of sensor)
Accuracy:	no data available
Long Term Drift	<10% per 6 months at 20°C / 68°F and 30-50% RH; sensitivity might increase over lifetime depending on application; high air flow conditions might affect lifetime.
Response Time (T₉₀):	<60s calculated from 3 min. exposure time @ 30 ccm/ min.
Resolution:	Display resolution: 0.01ppm Sensor resolution: <0.02 ppm at 20°C
Warm Up Time:	3 minutes after power up (to full operation)
Cross Sensitivity:	Bromine, Iodine yes; n/d, Carbon dioxide @5000ppm = 0ppm, Carbon Monoxide @100ppm = 0ppm, Chlorine @1ppm = 1.2ppm, Chlorine Dioxide @1ppm = 1.5ppm, Hydrazine @3ppm = -3ppm, Hydrogen @3000ppm = 0ppm, Hydrogen Sulphide @20ppm = -1.6ppm, Nitrogen @100% = 0ppm, Nitrogen Dioxide @10ppm = 6ppm Interference factors may differ from sensor to sensor and with lifetime. It is not advisable to calibrate with interference gases. Abrupt changes in temperature and humidity will cause short term drift
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 floor, application dependent
Monitoring Area:	3000 ft ² / 279 m ²
Suggested Alarm Setpoints	Low Alarm: 0.1 ppm / Mid Alarm: 0.2 ppm / High Alarm: 0.3 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 BTL RoHS compliant circuit boards This device complies with part 15 of the FCC Rules
Notes:	Never install gas detectors in the direct path of moving air.

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