



Digital Transmitter with Electrochemical Carbon Monoxide (CO) Sensor (standard range) and Nitrogen Dioxide (NO₂) Electrochemical Sensor

Dimensions: Size	5.0 x 5.0 x 3.0 in (127 x 127 x 76 mm) without optional splash guard (Option -S)
Weight	14 oz / 400 g
Construction:	Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant
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:	Optional SPDT relay rated 30 volts, 2 amp max (Option -RLY or -RBZ)
Audible:	Optional internal buzzer with Option -RBZ
Warm Up Time:	3 minutes after power up (to full operation)
Gases Detected:	Carbon Monoxide (CO) and Nitrogen Dioxide (NO ₂)
Carbon Monoxide Sensor:	
Type	Electrochemical
Life Span	Approximately 3 years (application dependent)
Complies With	UL2075, 2 nd Edition, Standard for Gas and Vapour Detectors and Sensors
Sensor Range:	0 – 200 ppm (standard)
Minimum Detection:	2 ppm (with regular calibration maintenance of sensor)
Accuracy:	<1ppm
Repeatability:	< ±3% CO equivalent
Sensitivity Drift:	<5 % per year
Response Time:	<30 seconds
Resolution:	Display resolution 1 ppm Sensor resolution: <1 ppm
Cross Sensitivity:	H ₂ @1000 ppm = <35ppm, NO@50ppm = <10ppm, C ₂ H ₆ O@200ppm = <1ppm, CL ₂ @15 = <1ppm, C ₂ H ₄ @100ppm = <96ppm, C ₂ H ₂ @100ppm = <90ppm
Nitrogen Dioxide Sensor:	
Type	Electrochemical Nitrogen Dioxide (NO ₂)
Life Span	Approximately 3+ years (application dependent)
Sensor Range:	0 – 10.0 ppm
Minimum Detection:	0.1 ppm (with regular calibration maintenance of sensor)
Accuracy:	±0.1 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: <+/-0.02 ppm (with regular calibration maintenance of sensor) Span: <2% signal per month (with regular calibration of sensor)
Response Time:	<25 seconds
Resolution:	Display resolution: 0.1ppm Sensor resolution: ±0.1 ppm
Cross Sensitivity:	Relative to Nitrogen dioxide = 100%, Hydrogen Sulphide = <40%, Hydrogen = <1%, Sulphur Dioxide = <1%, Ammonia = <1%, Nitric Oxide = <20%, Ethanol = <1%, Carbon Monoxide = <1%, Chlorine = <70%



PRODUCT SPECIFICATION CGAS-D-CO-NO2 Transmitter

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:	Breathing Zone - slightly lighter than air 4 to 6 ft (1.2 to 1.8 m) from finished floor
Monitoring Area:	7,000 to 10,000 ft ² / 464 to 929 m ² 40 to 56 foot / 12 to 17 meter radius, application dependent
Suggested Alarm Setpoints	Carbon Monoxide: Low: 25 ppm / Mid: 50 ppm / High: 100 ppm Nitrogen Dioxide: Low: 0.7 ppm / Mid: 1 ppm / High: 1.5 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 CO sensor complies with UL2075, 2 nd Edition Listed by BTL 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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