

CGAS-D-CO-RHT Transmitter

Digital Transmitter with Electrochemical Carbon Monoxide (CO) Sensor and Relative Humidity and Temperature Sensor (Option –RHT)

Dimensions:	Size	5.0" X 5.0" X 3.0" (127 mm x 127 mm x 76 mm)
	Weight	14 oz / 400 g
Construction:		Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant
Sensor:	Type	Electrochemical, button cell
	Life Span	Approximately 3 years (application dependent)
Gases Detected:		Carbon Monoxide (CO)
Sensor Range:		0 – 200 ppm standard
System Power:		4-wire: 16-30 VDC, 3W, Class 2 4-wire: 12-27 VAC, 50-60 Hz, 3 VA, Class 2
Temperature:		0°C to +40°C (32°F to 122°F)
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:		none
Audible:		none
Minimum Detection:		2 ppm
Accuracy:		+/- 0.5ppm
Repeatability:		+/-5% of reading
Sensitivity Drift:		<5% per year
Response Time (T₉₀):		60 sec
Resolution:		Display resolution: 1 ppm Sensor resolution: 1 ppm
Warm Up Time:		3 min
Cross Sensitivity:		H ₂ 50% CH ₄ , C ₄ H ₁₀ , C ₂ H ₅ OH, CO ₂ <3% NO ₂ , C ₂ H ₄ , CH ₂ O, NH ₃ , SO ₂ <15%
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:		Slightly lighter than air, 4 to 6 ft (1.2 to 1.8 m) from finished floor (Breathing Zone)
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
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
Note:		Never install gas detectors in the direct path of moving air.

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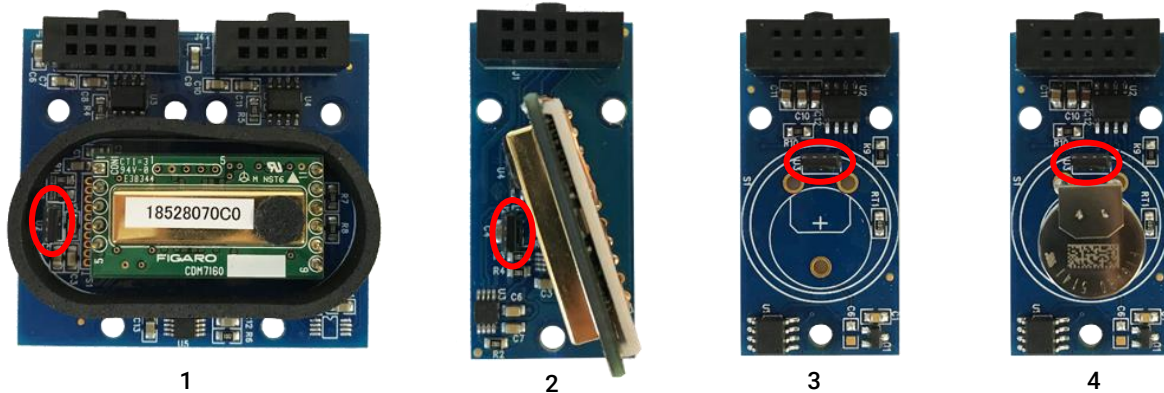
RH & Temperature Sensor (Option –RHT)

Option –RHT is available with several models of the CGAS Detector Line of Products

Display	User selectable units (°C or °F)
Update Rate	1/s
Energy Efficiency	Low supply voltage and low power consumption
Compliance	ROHS and WEEE compliant, Halogen Free
Warm-up Time	3 min after power up (to full operation)
Temperature Operating Range	-40°C to 40°C (-40°F to 104°F), powered (temperatures below 0°C /32°C require Option –LT)
Resolution	0.1 °C / °F
Humidity Operating Range	15 to 90 %RH, non-condensing, powered
Resolution	1.0 %RH
CGAS Detector Digital	Available with all single channel configurations <u>except</u> sticky gas sensors Cl ₂ , ClO ₂ , HCl, HCN, NO ₂ , O ₃ , PH ₃ Available with dual channel configurations that include a CO sensor
CGAS Detector Carbon Dioxide (CO₂)	Available with all models. Note: Analog (CGAS-A) models have 1 analog output; temp and RH readings back to a controller are available with digital (CGAS-D) models only
CGAS Detector Public Spaces	Available with all models. Note: Analog (CGAS-AP) models have 1 analog output; temp and RH readings back to a controller are available with digital (CGAS-DP) models only

Rev: 2-27-20

Smart Sensor Board configurations that include the RHT Sensor



1. Double wide, Smart Sensor Board with CO₂ and RHT Option. Used in CGAS Detector CO₂ analog & digital models (black enclosure only).
2. Single wide, Smart Sensor Board with CO₂ and RHT Option. Used in CGAS Public Spaces CO₂ analog & digital models (white enclosure only).
3. Single wide, Smart Sensor Board with RHT Option only, no gas sensor. Used in single gas channel CGAS Detector products.
4. Single wide, Smart Sensor Board with CO sensor and RHT Option. Can be used in all CGAS Detector products.

NOTE: A double wide sensor board occupies both sensor sockets, making only 1 internal gas channel possible. Single wide sensor boards use one sensor socket, leaving the other sensor socket to be used by another single wide smart board (gas sensor, relay, etc.).