

CGAS-A-CO2-5% Transmitter

Analog Transmitter with Non-dispersive Infrared Carbon Dioxide (CO₂) Sensor

Dimensions:	Size	5.0" X 5.0" X 3.0" / 127 mm x 127 mm x 76 mm (without optional splash guard)
	Weight	14 oz / 400 g
Construction:		Black ABS / Polycarbonate blend, water/dust tight, corrosion resistant
Sensor:	Type	Non-dispersive Infrared
	Life Span	Approximately 8 years (application dependent)
Gases Detected:		Carbon Dioxide (CO ₂)
Sensor Range:		0 - 5% vol
System Power:		3-wire: VDC: 16-30 VDC, 3-Watts, Class 2 4-wire: VAC: 12-27 VAC, 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 85% non-condensing
Indicators:		LCD digital display, 2 line x 16 character, backlit, user configurable alarm blink
Signal:		Current: Linear 4-20 mA (maximum 216 ohm load, wiring plus termination resistor @ 12VDC) Maximum 316 ohm load, wiring plus termination resistor @ 12VAC
Relay		Internal 1 SPDT relay rated 30 volts, 2 amp max (optional)
Audible:		Internal buzzer rated 90 dB @ 10 cm / 4 in, enable/disable (optional)
Minimum Detection:		0.03% vol
Accuracy:		±0.02%vol ± 10% of reading
Repeatability:		no data available
Sensitivity Drift:		<10% per year
Response Time (T₉₀):		2 min. (diffusion)
Resolution:		Display resolution: 0.01% vol Sensor resolution: ±0.01% vol
Warm Up Time:		3 minutes after power-up
Cross Sensitivity:		none
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, 3 to 5 ft / 91 to 152 cm from the floor (application dependent)
Monitoring Area:		3000 ft ² / 279 m ²
Suggested Alarm Points		Low Alarm: 0.5% vol / Mid Alarm: 1.5%vol / High Alarm: 3.0%vol
Certifications:		CSA-C22.2 No. 205-12, UL508 (Edition 18):2018
(tested to)		EMC Directive 2014/30/EU, EN 50270:2015, Type 1, EN61010 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. Carbon dioxide sensors require 99.9% nitrogen (N ₂) for a true zero.

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