

G Series

Carbon Monoxide Transmitter and Fan Controller

Product Overview

The G Series carbon monoxide detectors measure CO levels and signal control systems to provide an inlet of fresh air optimal for the space at a given time. G Series devices are equipped with a relay contact that closes when the CO level is below 25 ppm and opens when the CO level is above 25 ppm (when used with a normally closed contactor). Removal of the sensor, interruption of power, or cut wires cause the relay circuit to open and start the fan. Minimum relay cycle time is 3 minutes to prevent fan short-cycling.

Audible Alarm: An 85 dB alarm sounds if the CO level rises above 100 ppm for 30 minutes.

NOTICE

- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- Read and understand the instructions before installing this product.
- Turn off all power supplying equipment before working on it.
- The installer is responsible for conformance to all applicable codes.

No responsibility is assumed by Veris Industries for any consequences arising out of the use of this material.

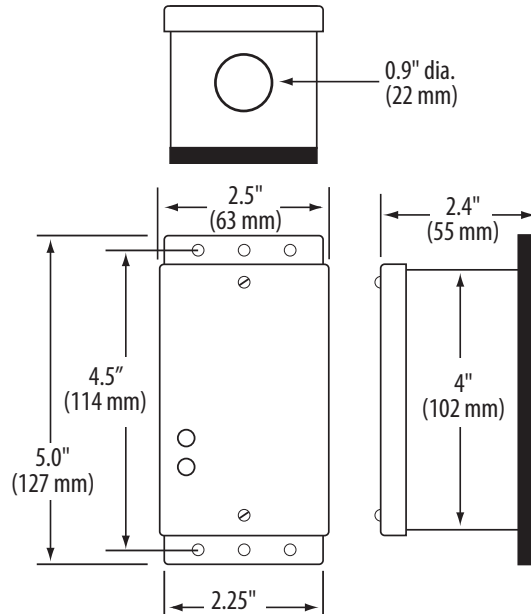
Product Identification

	Enclosure	Output	Auxiliary Alarm Output	US or EU
G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	D = Duct mount W = Wall mount	V = Field-selectable, 0-5/0-10VDC M=4-20mA R = Relay only	A = Auxiliary Contact X = None	= Standard

Specifications

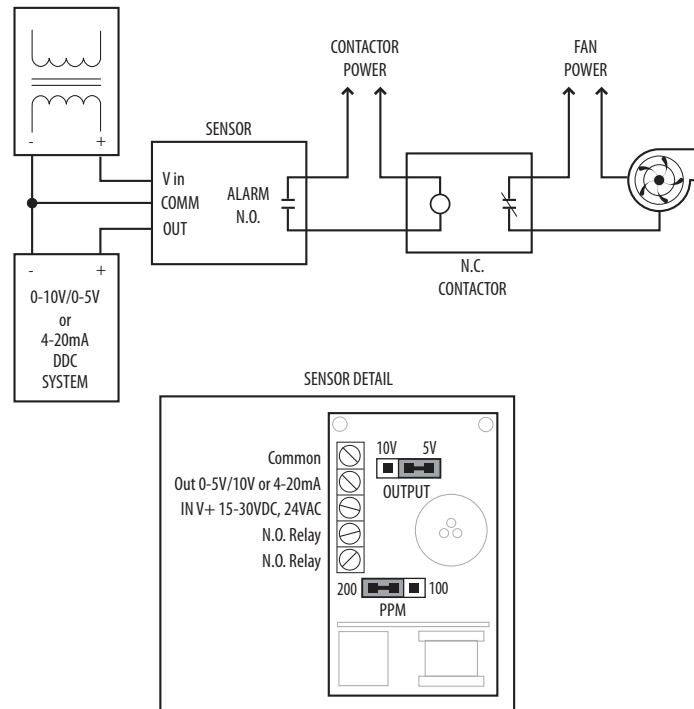
Input Power	15-30VDC/24VAC, 0.3A@24VAC
Sensor Type	Digitally profiled metal oxide semiconductor (MOS)
Sensor Life	5-10 years typical, replaceable
Detection Range	0 to 200 ppm
Analog Output	3-wire sourcing, 4-20mA or user selectable 0-5V/0-10V (specify mA or V)
Output Scaling	User-selectable 100 ppm F.S. or 200 ppm F.S.
Response Time	2 min 30 sec sample interval cycle
Relay Output	N.O. Form A (SPST) 8A@30VAC/VDC; (Use with N.C. contactor)
Relay Setpoint	25 ppm
High Limit Setpoint	100 ppm for 30 minutes
High Limit Alarm	Audible, 85 dB, resets below 100 ppm (solid-state contact for -AS version)
High Limit Contact (-AS Models)	250VAC/DC, 120mA max. Ron 35 Ω
LED Indicators	Solid Green = Normal; Solid Red = Call for ventilation; Flashing Green = Sensor life has expired; Flashing Red = High-limit alarm
Operating Temperature Range	-20° to 50°C (-4° to 122°F)
Operating Humidity Range	0 to 90% RH non-condensing
Coverage	5000-7500 sq ft typical (465-697 sq m)
Housing	White powder coat over steel

Dimensions



Installation

1. Lock out all power supplies prior to installation.
2. Select a location for the sensor in a secure area where it will be accessible only to qualified service personnel. Install the G Series sensor centrally in the parking structure, near the main traffic paths, but away from outside air vents and excessive drafts. Mount the unit securely to a wall or column at a height of about 5 ft. (1.52 m) from the floor.
3. Connect wiring as shown below. If using a voltage output model, use the output jumper to select 0-5 V or 0-10 V.



4. Apply power to the unit. A green LED on the circuit board indicates proper operation of the power supply.

Coverage is not dependent on the sensor. Coverage is a function of the building structure and air flow patterns. Wide open areas where the air is well mixed may require multiple sensors.

Service

For any service or installation, consult qualified service personnel. To ensure continued reliable operation, replace the sensor module every five years with a Veris Industries CO sensor replacement module (Veris part number AA09).

Replacement instructions:

1. Disconnect power from the unit.
2. Carefully remove the old sensor module.
3. Install the new module firmly into the socket.
4. Reconnect power to the unit.
5. The replacement sensor requires 96 hours to stabilize after initial power application.

The sensor module is factory calibrated. No field calibration is required or possible. Verify proper operation by observing the LED indicators.

Troubleshooting

Problem	Solution
4-20 mA output does not function	<ul style="list-style-type: none">• Verify that the unit is a 4-20 model.• Verify that the unit is wired for sourcing output.
Output is half or twice what is expected	<ul style="list-style-type: none">• Verify span jumper is set to desired scale.• For voltage units, verify jumper is set to desired voltage output scale.
Output is inaccurate or unstable	<ul style="list-style-type: none">• Allow 96 hours for sensor to burn in and stabilize.