

INSTALLATION INSTRUCTIONS

• Read instructions thoroughly prior to install

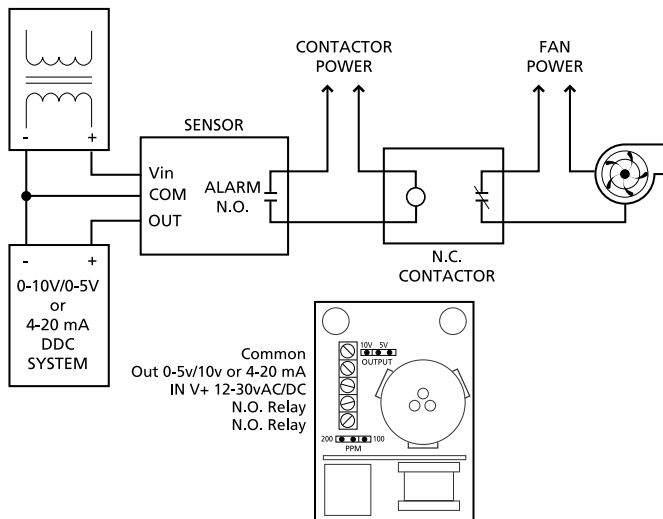
Applications shown are suggested means of installing sensors, but it is the responsibility of the installer to ensure that the installation is in compliance with all national and local codes and OSHA requirements. Installation should be attempted only by individuals familiar with proper installation techniques and with codes, standards, and proper safety procedures for control installations.

Locate the sensor in a heavy traffic flow area away from drafts. Mount the unit to a solid surface using screws provided. Do not obstruct vent openings.

Select jumper position for 0 to 100ppm, or 0 to 200ppm span range. For voltage output model, select 0 to 5V or 0 to 10V output.

Allow 24-hours of operation for sensor to burn-in and stabilize.

Wire sensor as shown:



GX SERIES

Carbon Monoxide Transmitter & Ventilation Fan Controller



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NOTE 1: Sensor 4-20mA output is sourcing type (i.e. Loop current is provided by sensor.) Do not apply voltage to sensor output. Damage to sensor or control panel may result from wiring sensor output to sourcing type control panel inputs.

NOTE 2: In 24VAC transformer powered sensor applications, one side of transformer secondary is connected to signal common. Some control systems may require a dedicated power supply transformer, or isolation transformer.

OPERATION

Analog output: Current output (4-20mA), or voltage output (jumper selectable 0-5V or 0-10V) sourcing type. Output scaled 0-100ppm or 0-200ppm (jumper selectable).

Relay output: Normally open (fail safe) contact for use with normally closed fan motor contactor. Relay contact closes when CO level is below 35ppm. Relay contact opens when CO level is above 35ppm. Removal of sensor, interruption of power, or cut wires causes relay circuit to open and start fan. Minimum relay cycle time is 3 minutes to prevent fan short-cycling.

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

LED indicators: GREEN LED indicates NORMAL status. FLASHING GREEN LED indicates sensor life has expired. RED LED indicates call for ventilation. FLASHING RED LED indicates CO level above 100ppm for 30 minutes.

P/N Z102025-0D

TROUBLESHOOTING

Q. 4/20 output does not function.

- A1. Verify that unit is a 4/20 model.
- A2. Verify unit is wired for sourcing output.

Q. Output is half or twice what is expected.

- A1. Verify span jumper is set to desired scale.
- A2. For voltage units verify jumper is set to desired voltage output scale.

Q. Output is inaccurate or unstable.

- A. Allow 24-hours for sensor to burn-in and stabilize.

SERVICE

For any service or installation consult qualified service personnel. To assure continued reliable operation, the sensor module should be replaced every five years. Replace sensor module only with Veris Industries CO sensor replacement module. To replace sensor module: Disconnect power from unit, carefully remove old sensor module, install new sensor module firmly into socket, and re-connect power to unit. The sensor module is factory calibrated. No field calibration is required or possible. Verify proper operation of sensor by observing LED indicators.

SPECIFICATIONS

Sensor	Digitally profiled Metal Oxide Semiconductor (MOS)
Sensor Life	5-year expected sensor element life, replaceable
Supply Power	12-30 VDC/24 VAC, 0.5A
Detection Range	0 to 200ppm
Analog Output	4-20mA or jumper selectable 0-10V/0-5V
Output Scaling	0-100ppm or 0-200ppm (jumper selectable)
Relay Setpoint	35ppm
Relay Output	N.O. Form A (SPST) 5A @ 120/240 AC (Use with N.C. contactor)
High Limit Setpoint	100ppm for 30 minutes
High Limit Alarm	Audible, 85dB, resets below 100ppm
LED Indicators	Green LED = Normal; Red LED = Call for Ventilation; Flashing Red LED = High Limit Alarm; Flashing Green = Replace Sensor Element
Operating Environment	-10 to 125° F; 10 to 90% RH non-condensing
Physical	5.0" x 2.5" x 2.3"; (125mm x 65 mm x 60 mm); 1 lb.; white powder coat over steel