GWN Series

SPECIFICATIONS

Input Power	Class 2; 15-30VDC/24VAC ±20%, 50/60Hz
Relay Ratings	1A/30VAC/DC, Normally Open
Operating Temperature Range	-20° to 50°C (-4° to 122°F)
Operating Humidity Range	0-90% RH non-condensing
Terminal Block Wire Size	30-12 AWG
Terminal Block Torque	0.5-0.6N-m (0.37-0.44 in-lbf)
Protection Class	IP20

The GWN operates only when an AG Series gas sensor is installed (sold separately). Accuracy, sensitivity, setpoints, and measurement range are dependant on the AG Series sensor connected to the GWN platform. See the AGxx sensor installation guide for details.

* The AGxx gas sensors are warranted for two years from the date of manufacture. The AGxx sensors are not included in the 5-year GWN warranty.

GWN

Modular Gas Sensor Base Accepts Both the AG01 (CO) & AG02 (NO$_2$) Gas Sensors

FEATURES

- *Modular platform that accepts either the AG01 CO sensor or the AG02 NO$_2$ sensor (sold separately)...no need to install a new GWN when the sensor life wears out*
- *Three colored LEDs (red, yellow, green)...easy status viewing*
- *Microprocessor controlled...excellent stability*
- *No calibration required...easy maintenance and worry-free operation*
- *Interface to DDC system or direct fan control...easy integration with existing systems*
- *Interface to control system via 4-20mA with relay, 0-5/0-10VDC with relay, or relay only options...application flexibility*
- *Relay outputs provide low, high, and sensor end-of-life signals for multi-stage fan actuation and service indication*

DESCRIPTION

GWN Series gas platform offers a convenient means for sensing gases in the environment. The GWN is mounted to any single-gang electrical box and wired to the building controller. Then, a single AGxx gas sensor (sold separately) is installed in the GWN. With this design, there is no need for a costly new installation when a sensor reaches the end of its life. The GWN platform remains installed, and the installer simply opens the GWN housing to replace the modular sensor inside, reducing labor costs and downtime.

AG sensors for CO and NO$_2$ are available, and the sensor can be swapped in the GWN platform at any time with minimal effort. The GWN platform converts the signal from the AG sensor into an analog or relay signal compatible with building control systems.

APPLICATIONS

- *Controlling parking garage ventilation*
- *Ensuring OSHA air quality compliance in commercial buildings and factories*
- *Vehicle bays (ambulance/fire/taxi stations)*
- *Mechanical rooms*
- *Sally ports*

Power Supply
+
−

Control System
Common
Gas Sensor Input*

Relay
Common
High Setpoint
End of Life
Low Setpoint

0.6" (15 mm)
4.5" (113 mm)
3.25" (83 mm)
2.75" (70 mm)
1.2" (30 mm)
1.1" (27 mm)
1.7" (42 mm)
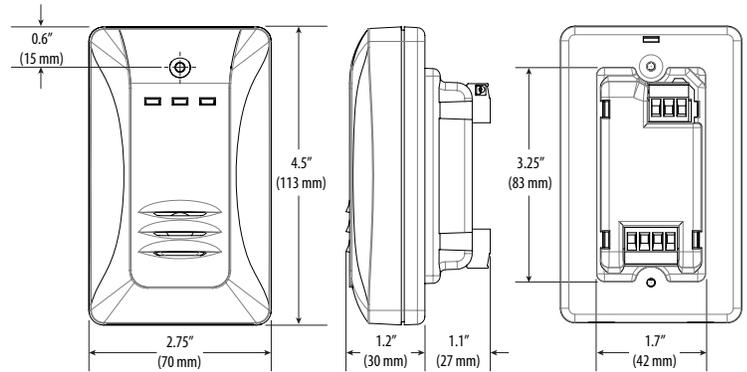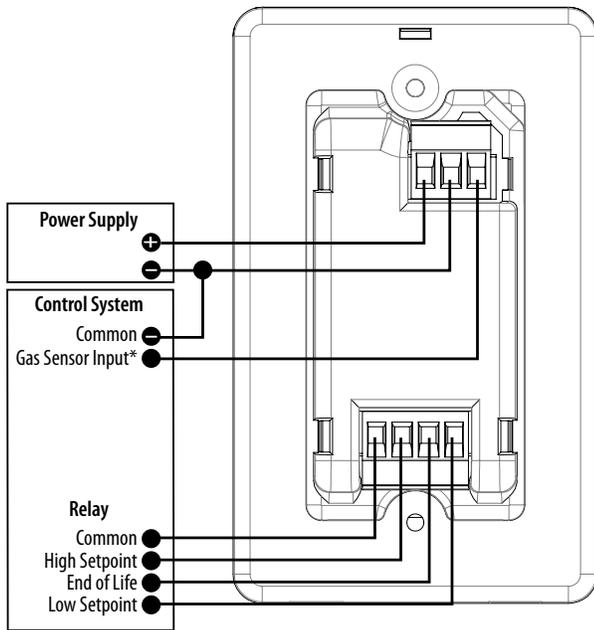
Not available on relay only models.

ORDERING INFORMATION CE

GWN* **Output** ☐ X X

V = Field-selectable, 0-5/0-10VDC with relay
M = 4-20mA with relay
1 = Relay only

Example:

GWN M X X
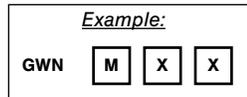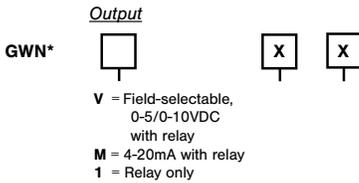
*The GWN will not operate without an AGxx sensor installed. Sensors are sold separately.*

ORDERING INFORMATION – REQUIRED SENSORS

2 Year Warranty

MODEL	DESCRIPTION
AG01	CO Sensor. CO sources include exhaust from gasoline engines, gasoline powered furnaces, gasoline powered water heaters, gasoline generators
AG02	NO_2 Sensor. NO_2 sources include exhaust from diesel engines and diesel powered generators

AG01 CO Sensor

AG02 NO_2 Sensor

Sensor Type	Electrochemical
Measurement Range	0-200 ppm
Accuracy	±5% of range
Resolution	1 ppm
Sensor Warranty	2 years from manufacture date
Low Setpoint Value	25 or 35 ppm (switch selectable)
High Setpoint Value	180 ppm (fixed)
Operating Temperature Range	-20° to 50°C (-4° to 122°F)
Operating Humidity Range	0-90% RH non-condensing

Sensor Type	Electrochemical
Measurement Range	0-15 ppm
Accuracy	±5% of range at 25°C
Resolution	0.1 ppm
Sensor Warranty	2 years from manufacture date
Low Setpoint Value	1 ppm (fixed)
High Setpoint Value	3 ppm (fixed)
Operating Temperature Range	-20° to 50°C (-4° to 122°F)
Operating Humidity Range	0-90% RH non-condensing

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