



GWNP



GWNP

SPECIFICATIONS

| | |
|-----------------------------|--|
| Input Power | Class 2; 15 to 30 Vdc/24 Vac \pm 20%, 50/60 Hz |
| Relay Ratings | 1A/30 Vac/dc, normally open |
| Operating Temperature Range | -20 to 50 °C (-4 to 122 °F) |
| Operating Humidity Range | 0 to 90% RH non-condensing |
| Terminal Block Wire Size | 30 to 12 AWG |
| Protocol | BACnet and Modbus (selectable) |
| Terminal Block Torque | 0.5 to 0.6 N-m (0.37 to 0.44 in-lbf) |
| Protection Class | IP20 |
| Limited Warranty | 5 years* |

The GWNP 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 GWNP platform. See the AG Series sensor installation guide for details.

** The AG Series gas sensors are warranted for two years from the date of manufacture. The AG Series sensors are not included in the five-year GWNP warranty.*

MODULAR GAS SENSOR BASE ACCEPTS AG SERIES GAS SENSORS

DESCRIPTION

GWNP Series gas platform offers a convenient means for sensing gases in the environment. The GWNP 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 GWNP. With this design, there is no need for a costly new installation when a sensor reaches the end of its life. The GWNP platform remains installed, and the installer simply opens the GWNP housing to replace the modular sensor inside, reducing labor costs and downtime.

AG Series sensors can be swapped in the GWNP platform at any time with minimal effort. The GWNP platform converts the signal from the AG sensor into protocol communications compatible with building control systems.

APPLICATIONS

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

FEATURES

- Interface to control system via BACnet and Modbus protocols
- Modular platform accepts Veris AG Series sensors (sold separately)...no need to install a new GWNP 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
- Relay outputs provide low, high, and sensor end-of-life signals for multi-stage fan actuation and service indication



AG01 CO Sensor



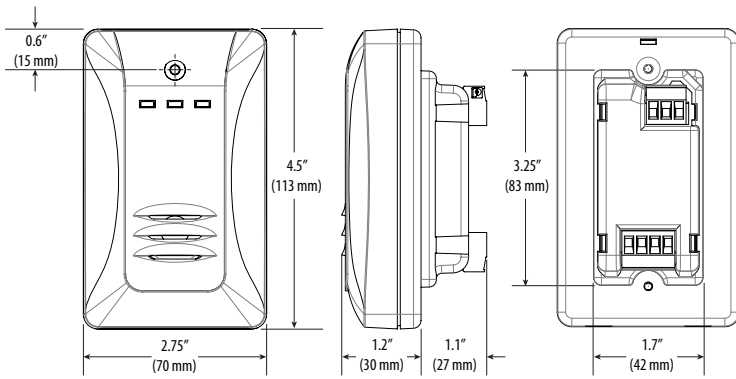
AG01E CO Sensor

AG02 NO₂ Sensor

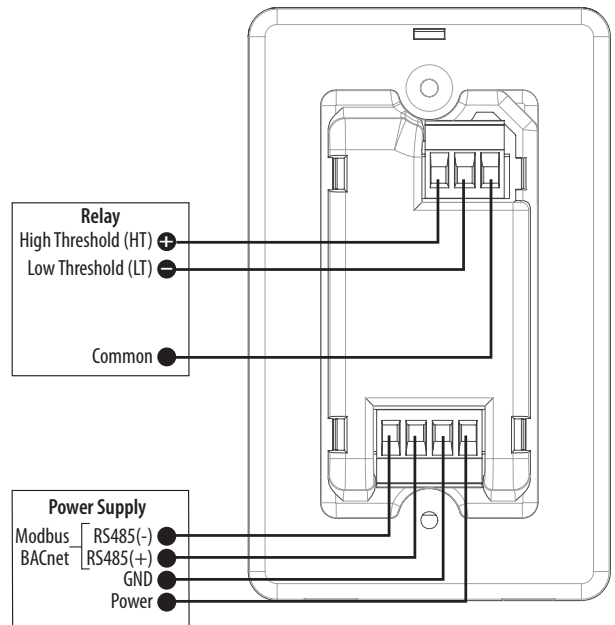
| SENSOR TYPE | Electrochemical | Electrochemical | Electrochemical |
|-----------------------------|----------------------------------|----------------------------------|-------------------------------|
| MEASUREMENT RANGE | 0 to 300 ppm | 0 to 500 ppm | 0 to 15 ppm |
| ACCURACY | \pm 3% of range | \pm 5% of range | \pm 5% of range at 25 °C |
| ANALOG OUTPUT SCALING | 0 to 200 ppm | 0 to 200 ppm | 0 to 15 ppm |
| RESOLUTION | 1 ppm | 1 ppm | 0.1 ppm |
| SENSOR WARRANTY | 2 years from manufacture date | 1 year from manufacture date | 2 years from manufacture date |
| LOW SETPOINT VALUE | 25 or 35 ppm (switch selectable) | 25 or 35 ppm (switch selectable) | 1 ppm (fixed) |
| HIGH SETPOINT VALUE | 180 ppm (fixed) | 180 ppm (fixed) | 3 ppm (fixed) |
| OPERATING TEMPERATURE RANGE | -20 to 50 °C (-4 to 122 °F) | -20 to 50 °C (-4 to 122 °F) | -20 to 50 °C (-4 to 122 °F) |
| OPERATING HUMIDITY RANGE | 0 to 90% RH non-condensing | 0 to 90% RH non-condensing | 0 to 90% RH non-condensing |



DIMENSIONAL DRAWINGS



WIRING DIAGRAM



ORDERING INFORMATION



*The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.
 **The GWNP will not operate without an AG Series sensor installed. Sensors are sold separately.

ORDERING INFORMATION – REQUIRED SENSORS

| | DESCRIPTION |
|-------|---|
| AG01 | CO sensor, 3% accuracy. CO sources include exhaust from gasoline engines, gasoline powered furnaces, gasoline powered water heaters, gasoline generators. |
| AG01E | CO sensor, 5% accuracy. CO sources include exhaust from gasoline engines, furnaces, water heaters, generators. |
| AG02 | NO ₂ sensor. NO ₂ sources include exhaust from diesel engines and diesel powered generators |

Note: See Specifications section for AG sensor warranty details.