

GASGUARDIAN 2 2-CHANNEL CONTROLLER



Key Features

- Simultaneously monitor two sensor locations
- Six onboard relays standard
- Alarm Log records and stores every event
- Industry standard linear 4/20 mA input
- Simple menu-driven programming through the LCD operator interface
- Power supply can also drive external horn/strobes
- Watertight enclosure designed for washdown areas and outdoors
- Configurable for GasGuard sensor line and any other 4/20 mA gas sensor
- Horn relay silenceable from front-panel Silence key

The perfect controller for small gas detection systems provides
a Stand-Alone Safety System for any 2-sensor application.

The GasGuardian 2 can interface to, but operate independently of plant control systems for a reliable stand-alone safety system. Multiple digital and analog outputs provided on the GasGuardian-2.

The GasGuardian 2 has a total of 6 relay outputs, including one warning and one alarm relay per channel, one common fault relay, and one common horn relay. An onboard buzzer works in tandem with the common horn relay. Analog outputs are standard, which can be sent to a plant PLC or other 4/20 mA control panel.

The watertight fiberglass enclosure will stand up to corrosive washdown, temperature swings, and any other harsh environment encountered in the food industry. The alarm log holds 10,000 events, so yesterday's events will not go unnoticed.

Applications

- | | | |
|--------------------|-------------------------|-------------------|
| • Engine Rooms | • Sea Vessels | • Heat Treatment |
| • Tank Rooms | • Refrigeration Systems | • Refineries |
| • Mechanical Rooms | • Perimeter Monitoring | • Chemical Plants |

Benefits

- Low cost solution for small systems
- Simple setup
- Alarm log



The **GasGuardian 2** controller utilizes a user-friendly LCD operator interface for all readout information and alarm function control. The controller is configured and ready to go out of the box with default setpoints loaded in the software. Simply enter the zone location names and adjust the alarm setpoints if necessary.

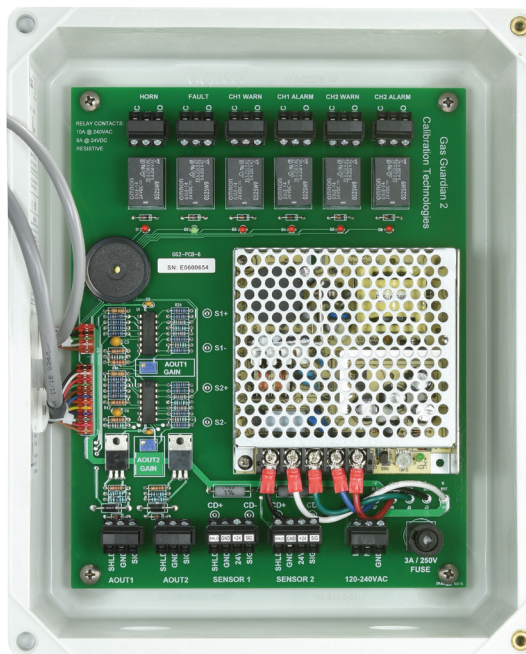
The backlit LCD displays real-time status of gas sensor concentrations and allows for custom programming via the user-friendly menu system. The **GasGuardian 2** is compatible with all gas sensors with its industry standard 4/20 mA inputs. The power supply is also powerful enough to power external 24Vdc horn/strobes.

All wiring is safely enclosed inside and easily accessed from the hinged lid. All human interfacing is performed via the waterproof membrane keys on the outside, for non-intrusive operation.

Ordering Information

The **GasGuardian-2** is delivered ready to install. Use either the default setpoints or choose your own. Use the model number below to order.

Order #: [GG-2](#)



SPECIFICATIONS

Due to ongoing research and product improvement, specifications are subject to change

Input Power Requirements:

100-240 VAC, 1.3 A, 50/60 Hz

Output DC Power:

24 VDC, 1.2 A

Dimensions:

11.3" high x 9.3" wide x 7" deep

Weight:

6 lbs

Enclosure:

Fiberglass Reinforced Polyester NEMA 4X, IP 65, with neoprene gasket. Continuous stainless steel hinge. Captive screws in lid. For non-classified areas

Temperature Range:

0°F to +122°F (-18°C to +50°C)

Humidity Range:

0-95% RH condensing (100% intermittent), with proper conduit seals

Relay Outputs: (6)

SPDT, Form C dry contacts
8A @ 24 VDC or 10 A @ 120/240 VAC
Selectable to Latch/Non-Latch
Status LEDs show relay state

(1) Common Horn Relay

Selectable to trigger upon warn or alarm, or both

(1) Common Fault Relay

Normally energized
De-activated upon power loss or 1 mA signal

(2) Individual Warn Relays

Programmable setpoints

(2) Individual Alarm Relays

Programmable setpoints

Analog Outputs:

(2) Individual 4-20 mA outputs

Terminal Block Plugs (Field Wiring):

12-26 AWG, torque 4 lbs-in

Controller Functions:

LCD, backlit, graphics display (GG-6 only)
8 lines x 22 characters
Waterproof membrane switches, alpha-numeric keys
Non-volatile memory

Real-Time Status Display: Displays gas concentrations and any current alarm conditions

Alarm Log: Records and stores 10,000 events for easy recall

Calibration Mode: Locks relay outputs for sensor calibration or maintenance

Relay Test Function: Allows for easy testing of relay output functions

Adjustable Warning and Alarm Setpoints

Adjustable Relay Latch/Non-Latch

Downscale Alarm Setting for Oxygen Monitoring

Horn Silence Button Clears Horn Relay

Certification:

ETL listed to UL standard 61010-1, and CSA standard C22.2 No. 61010-1-12

Warranty:

2 years

