

## 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 can accommodate any gas sensor
- 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

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

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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 means no extra output boards need to be added later for unforeseen interfacing in the future.

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 that works in tandem with the common horn relay. Analog outputs are standard, which can be sent to your 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 often encountered in the food industry. Since the alarm log holds 10,000 events, yesterday's events will not go unnoticed.

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### Applications

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

### Benefits

- Low cost solution for small systems
- Easy, simple configuration
- Alarm log records all events

# GASGUARDIAN-2

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

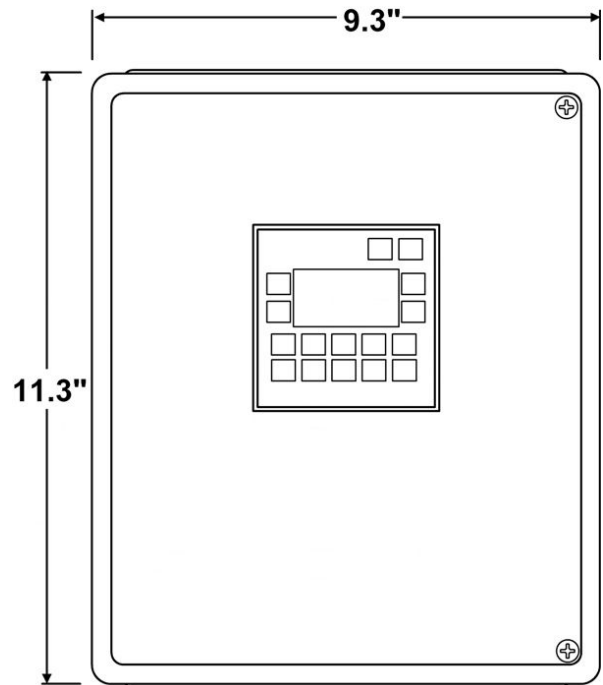
The backlit LCD displays real-time status of gas sensor concentrations and allows for custom programming thru a user-friendly menu system. The GasGuardian-2 is compatible with all gas sensors with it's industry standard 4/20 mA inputs. The power supply is also powerful enough to power external 24Vdc 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** (does not include sensors)



## SPECIFICATIONS

*DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE*

### AC POWER REQUIREMENTS:

110 VAC @ 1 A

### DC POWER AVAILABLE FOR SENSORS

+24 VDC @ 1.1 A

### DIMENSIONS:

11.3" high x 9.3" wide x 7" deep

### WEIGHT:

6 lbs

### ENCLOSURE:

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

### TEMPERATURE RANGE:

0°F to +122°F

### HUMIDITY RANGE:

0-100% RH, condensing, with proper conduit seals

### RELAY OUTPUTS: (6)

SPDT relays, 10A @ 24 VDC or 120 VAC

10 Second On/Off delays

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

### HORN:

PCB mount Piezo buzzer

### CONTROLLER FUNCTIONS:

LCD, backlit, graphics display

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**