

GASGUARDIAN-EM ENTRANCE MONITOR



Key Features

- At-a-glance visual indication of gas concentrations before room entry
- For stand-alone or feed-through applications
- Onboard 10A relay with adjustable alarm setpoint
- 10-segment LED bargraph display of gas concentration
- Electronics completely potted to protect against water damage and corrosion
- Status LEDs display sensor power, alarm or fault conditions
- Industry standard linear 4/20 mA input can accommodate any gas sensor
- Calibration mode allows alarm inhibiting during maintenance or calibration
- Watertight NEMA 4X enclosure designed for washdown areas and outdoors
- Use with GasGuard sensor line or any other 4/20 mA gas sensor

What's lurking behind your doors?

Protect your personnel from entering dangerous areas.

The Gas-Guardian EM provides plant personnel an at-a-glance visual indication before entering potentially dangerous areas. It has a ten-segment LED bargraph display, power, alarm and fault indication, and one relay output with a simple alarm setpoint adjustment. Great for engine rooms and air handlers.

The GasGuardian EM can be used as a stand-alone monitor, or in series with the sensor signal to provide remote display / remote relay operation. As a feed-through device, the sensor signal is re-transmitted back to any industry standard 4/20 mA device such as a PLC or gas detection control panel.

The watertight polycarbonate enclosure will stand up to corrosive washdown, temperature swings and any other harsh environment often encountered in the food industry. The electronics are completely potted to protect against corrosion, allowing for installation in washdown areas and outdoors.

Applications

Compressor Room Entrances
Rooftop Air Handling Units
Oxygen Deficiency Monitoring
Remote Relay Activation and Readout

Benefits

Low cost solution for remote gas concentration display, or remote relay output control for alarm activation or equipment shutoff.

GASGUARDIAN-EM

The GasGuardian EM is a low cost solution that provides multiple configurations to meet many needs for remote display and alarm applications. Use the GasGuardian EM as a stand-alone device, or as a feed-through device to provide remote display and alarm output capability located at or near the sensor.

Since sensors often end up in wet harsh environments, an onboard relay is not always ideal. The GasGuardian EM provides alarm activation remote of the sensor, in a safe enclosure out of harm's way. The onboard relay is rated at 10A@24VDC or 120VAC.

The GasGuardian EM provides an at-a-glance indication of dangerous gas concentrations with a 10-segment LED. An alarm indication is displayed by a flashing status LED. A 10-position rotary switch allows for easy setpoint selection in 10% increments. Calibration mode is selected via an onboard switch, and prevents relay activation during maintenance or calibration. The analog output signal is also held at 4 mA to prevent alarm conditions at the control panel or PLC.

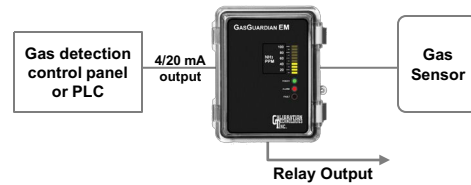
Ordering Information

The **GasGuardian EM** is delivered ready to install. Use the model number below to order. The **GG-EM-PS** option allows the unit to be hardwired for 120VAC power.

Order #: **GG-EM** (does not include sensor or power supply)

GG-EM-PS 24VDC, 0.625A power supply mounts inside of GG-EM (for stand-alone or OEM installations)

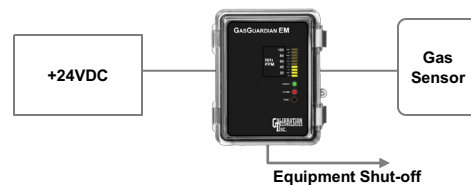
Feed-Through Installation



Stand-Alone Installation



OEM Installation



SPECIFICATIONS

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

POWER REQUIREMENTS:

24VDC, 120mA (does not include other connected devices)

SIGNAL INPUT:

4/20 mA, 100 Ohm input impedance

DISPLAY:

10-Segment LED Bargraph

ALARM INDICATION:

Flashing red LED

FAULT INDICATION:

Solid red LED

POWER INDICATION:

Solid green LED

ALARM LEVEL SETTING:

10% increments by 10-position rotary switch

RELAY OUTPUT:

SPDT relay, 10A @ 24 VDC or 120 VAC
10 Second On/Off delays
Non-Latching
Status LED shows relay state
Normally energized
An alarm condition, fault condition or loss of power will de-energize the relay

DIMENSIONS:

5.1" high x 4.2" wide x 4" deep

WEIGHT:

1.0 lbs

ENCLOSURE:

Polycarbonate NEMA 4X, with neoprene gasket.
Hinged lid with dual clasps. For non-classified areas.

MONITOR FUNCTIONS:

Calibration Mode: Locks relay outputs for sensor calibration or maintenance.

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

Adjustable Alarm Setpoint

Downscale Alarm Setting for Oxygen Monitoring

TEMPERATURE RANGE:

-40°F to +122°F

HUMIDITY RANGE:

0-100% RH, condensing