

GMA 40B Series

Gas Monitoring Controller



GMA 40 Fixed Controller

- Single channel controller or one to four channel controller
- Intuitive push-button operation
- Easy installation on standard DIN rail
- 4 - 20 mA input standard (factory configured to 0.2 - 1 mA)
- 3 user-adjustable alarm points
- User-adjustable alarm hysteresis
- 4 relays (3 alarm and 1 fault)
- Din rail power supplies available
- Factory configured alarm functions include:
 - Latching/non-latching
 - Resettable/non-resettable
 - Time delay
 - Rapid rise alarm for combustible setups
- 4 - 20 mA output (GMA 41B only)

GfG Instrumentation

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Fixed Systems Controller

The GMA 41 1-channel controller and the GMA 44 4-channel controller are an integral part of safe and reliable gas warning systems.

Alarm Points

Every alarm in the GMA can be individually adjusted. False alarms are eliminated with the adjustable alarm delay. The point values can be freely adjusted within the detection range. They can also be adjusted later with the control keys to adapt to changing requirements. Every point value can be selected to be latching / non-latching or resettable / non-resettable.

Alarm Relays

Every controller provides four voltage-free relays for the three alarms and the fault warning. The relays may be used to control external alarm devices like lights or horns. They can even introduce specific counter measures to prevent or limit dangers from gases or vapors.

Easy Calibration

Zeropoint adjustments and calibrations are done through menus on the GMA controller.

Additional features

The GMA 41 and GMA 44 store minimum or peak values, depending on the type of gas being detected.

The GMA (variant B) offers an integrated BUS-system. The BUS-system supplies power from one source to all connected GMAs. The BUS-system also connects individual controller alarms together so that, with the use of the key-operated switch, all connected monitors have one collective alarm. Several GMAs can be connected easily without additional wiring.



Specifications

Gases

Depending on transmitter:
Combustible / explosive
Toxic gases and vapors
Oxygen

Detection Ranges

Depending on requirements:
% LEL, volume %, ppm, mg/m³

Temperature Range

0° to +131°F (0° to +55°C)

Response Time

T₉₀ less than 3 seconds

Power Source

24 VDC

Power Consumption

Maximum 150 mA at 24 VDC

Input Signal

0.2 to 1 mA or 40 to 20 mA

Output Signal

Linear 4 to 20 mA (GMA 41)

Alarms

3 alarm points
Individually adjustable within detection range

Alarm Functions

Exceeding / descending
Latching / non-latching
Resettable / non-resettable
Hysteresis adjustable
Delay-time 0 to 2 minutes

Relay Outputs

4 voltage-free relays for alarm and fault
Normally closed contact (NC)
Normally open contact (NO)

Display

3-digit LED display
1 LED green - operational status
1 LED yellow - fault
3 LED red - alarm
Display of maximum / minimum values

Function Keys

Push-button operation for functions, such as alarm points, calibration, function test and relay test

Models

GMA 41B / GMA 44B

Key-Operated Switch

GMA 41 / GMA 44 SW (24V)

Power Supply Module

Available on request (cUL_{USA})

Dimensions

3.6x4.24x2.32 inches (90x106x58 mm) (HxWxD)

ATEX Certificate (GMA 41)

II (2) G BVS 03 ATEX G 005 X

Accessories

Horn and strobe
Power Supply

Distributed by:



GfG Instrumentation

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Specifications subject to change without notification