

GMA 40B Series

Gas monitoring controllers



Single or four channel controller

Easy mounting on DIN-rail

Multiple alarm points with relays

Fixed Systems Gas Warning for DIN-Rail Mounting

The GMA 41, one-channel gas warning system, and the 4-channel device GMA 44 offer safe and reliable gas warning systems.

Alarm points

Every alarm can be adjusted separately. 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 at a later stage 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.

Additional features

The GMA 41 and GMA 44 store minimum and peak values. Following an alarm, the gas danger can be detected accurately.

With the help of the key-operated switch, all connected GMAs can be switched to a collective alarm.

The GMA (variant B) offers an integrated Bus-system. The Bus-system transfers alarms and malfunctions for a collective alarm and establishes the connection of the power supply for all GMAs. Several GMAs can be connected easily without additional wiring.



GMA 40B Series

Technical Data

Gases

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

Detection Range

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

Temperature Range

-4 to +122 °F (-20 to +50 °C)

Response Time

4 to 30 seconds depending on type of gas

Power Source

24 VDC

Power Consumption

Max. 4 W, normal 2 W

Input Signal

Linear 0.2 to 1 mA / 4 to 20 mA

Output Signal

Linear 4 to 20mA (GMA 41)

Dimensions

4.24 x 3.6 x 2.32 inches (WxHxD)
(106 x 90 x 58 mm)

Calibration

Automatic zeroing

Alarms

3 alarm points
Freely adjustable within the detection range

Alarm Functions

Exceeding / declining
Latching / non-latching
Resettable / non-resettable
Hysteresis adjustable
Delay-time 0 to 2 minutes
Alarm thresholds completely adjustable
Alarm allocation (GMA 44)

Relay Outputs

4 voltage-free relays for alarm and fault
Normally closed contact (NC)
Normally open contact (NO)
Change-over contacts.
Load: 100 VA, 5 A

Display

3-digit LED display for linear measurement values, service
1 LED green – operational status
1 LED yellow – fault
3 LEDs red – alarm
Display of maximum/minimum values

Function Keys

Push-button operation for all functions, like alarm points, calibration, function test and relay test
Function test: PFG No. 41300500

Models

GMA 41B/GMA 44B
Power supply 24 V with bus-system

KEY-OPERATED SWITCH

GMA 41/GMA 44 SW (24 V)
GMA 41/GMA 44 SW (230 V)

Power supply module

Available on request

Specifications subject to change without notification

Distributed by:



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