

# GMA 40B Series

## Gas Monitoring Controllers



- Single or four channel controller
- Easy mounting on DIN-rail
- Multiple alarm points with relays

# Gas Monitoring Controllers

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 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 later with the control keys to adapt to changing requirements. Every point value can be selected to be latching / non-latching or re-settable / non-re-settable.

## 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 or peak values, depending on the type of gas being detected. Gas dangers can be accurately detected immediately following an alarm.

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.



## GMA 40B Series

# Technical Data

### Gases

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

### Detection Range

Depending on requirements:  
% LEL, volume %, ppm, mg/m<sup>3</sup>

### Temperature Range

32 to +131°F (0 to +55°C)

### Response Time

T<sub>90</sub> less than 3 seconds

### Power Source

24 VDC

### Power Consumption

Maximum 150 mA at 24 VDC

### Input Signal

0.2 to 1 mA or 4 to 20 mA

### Output Signal

Linear 4 to 20 mA (GMA 41)

### Alarms

3 alarm points  
Freely adjustable within the detection range

### Alarm Functions

Exceeding / descending  
Latching / non-latching  
Re-settable / non-re-settable  
Hysteresis adjustable  
Delay-time 0 to 2 minutes  
Alarm thresholds completely adjustable

### 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's red – alarm  
Display of maximum / minimum values

### Function Keys

Push-button operation for all functions, like alarm points, calibration, function test, and relay test

### Models

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

### Key-Operated Switch

GMA 41 / GMA 44 SW (24 V)

### Power Supply Module

Available on request

### Dimensions

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

Specifications subject to change without notification



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