



Fixed Gas Detection Systems

smart  
**GasDetection**  
Technologies



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# GMA41 / 44 Controller

**Safe and reliable gas warning system**



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# GMA41 / 44 Controller

## Safe and reliable gas warning system

The GMA41 1-channel controller and the GMA44 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 / nonlatching 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 performed using menus on the GMA controller.

### Additional features

The GMA41 and GMA44 store minimum or peak values, depending on the type of gas being detected.

The GMA (B version) 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.

## Technical Data: GMA41 / 44

### Gases:

Depending on transmitter.  
Combustible / explosive, toxic gases and vapors, oxygen (O<sub>2</sub>)

### Detection range:

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

### Response time:

T<sub>90</sub> < 3 s

### Temperature:

+32 to +131 °F / 0 to +55 °C

### Input signal:

0.2-1 mA or 4-20 mA

### Output signal:

Linear 4-20 mA (GMA41)

### Relay outputs:

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

### Power supply:

24 V DC  
Available on request (C<sub>UL</sub><sub>USA</sub>)

### Power consumption:

Maximum 150 mA at 24 V DC

### 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 alarm points, calibration, function test and relay test

### Key operated switch:

GMA41 / GMA44 SW (24 V)

### Alarms:

3 alarm points  
Individually adjustable within detection range

### Alarm functions available:

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

### Dimensions:

3.6 x 4.24 x 2.32 in /  
90 x 106 x 58 mm  
(H x W x D)

### Models:

GMA41B, GMA44B

### Accessories:

Horn and strobe  
Power supply

### Approvals / Certifications:

ATEX Certificate (GMA 41):  
II (2) G BVS 03 ATEX G 005 X



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All specifications on this brochure are subject to technical changes due to further development.

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