

# GMA 81 / GMA 84

Compact controller for all transmitters



Easy wall mounting

Compact controller

Flexible, for all measurement tasks

For 1 to 4 transmitters

Can also be configured at a later stage

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# Fixed systems gas warning for wall mounting

The GMA 81 is a single channel system, for measuring and monitoring of one detection point. The GMA 84 can operate 4 transmitters simultaneously and offers a low cost solution for several detection points.

## Easy wall mounting

The GMA 81/GMA 84 with its robust casings can easily be mounted on a wall. The small dimension makes space-saving mounting possible.

## Alarm thresholds

Both systems provide three threshold value alarms. For every one of these alarms, threshold values and functions can be individually programmed. The adjustable alarm delay avoids the occurrence of a false alarm. The threshold values can be freely adjusted within the detection range. Every threshold value can be selected to be latching/non-latching, resettable/non-resettable. All adjustments can also be done at a later stage to adapt the controller to changing requirements.



The GMA 81 and the GMA 84 store minimum and peak values and therefore, after an alarm the exact danger can be determined.

## Quick reaction means increased safety

Every controller provides 4 voltage-free relays for the three alarms and the fault warning. The relay may be used to control external alarm devices like lamps or horns. They even can introduce specific counter

measures to prevent or limit dangers from gases or vapors.

The GMA 81 A/GMA 84 A already have an integrated visible and audible alarm. On the top of the unit a brightly flashing, clearly visible lamp indicates an alarm. Furthermore an alarm horn is integrated in the unit. This saves considerable space and also reduces installation work. Additionally, there are 4 relays existing for the connection of external alarm devices.

## GMA 81/84

### Gases

Depending on transmitters: combustible/ explosive, toxic gases and vapors, oxygen

### Detection range

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

### Temperature range

-20 to +50 °C  
(-4 to +131°F)

### Power supply

24 V DC, 230 V

### Power consumption

Max. 4 W, normal 2 W

### Input signal

0,2 .. 1 mA / 4 .. 20 mA

### Output signal

Linear Signal  
4 .. 20 mA (GMA 81)

### Casing

130 x 185 x 95 mm (WxHxD)  
(5.2 x 7.4 x 3.8 inches)  
Protection: IP 54

### Calibration

Automatic zeroing, calibration with data logging

### Alarms

3 alarm thresholds, freely adjustable within the detection range

### Alarm functions

Exceeding / falling short,  
latching / non-latching,  
resettable / non-resettable,  
hysteresis adjustable,  
delay-time 0 .. 2 minutes,  
alarm thresholds completely adjustable,  
alarm allocation by GMA 84

### Relay Outputs

4 voltage-free relays for alarm and fault,  
normally closed contact (NC), normally open contact (NO), change-over contacts.  
Load: 1000 VA, 5 A

### Display

3-digit LED display for linear measurement values, Service  
1 LED green - operational status  
1 LED yellow - fault  
3 LED's red - alarm  
display of maximum / minimum values

## Technical Data

### Function keys

4 different keys for all functions, like alarm thresholds, calibration, function test and relay test

### Function test

PFG No. 41300600

### Models

#### GMA 81

1 channel

#### GMA 81 A

1 channel incl. alarm lamp and horn

#### GMA 84

4 channels

#### GMA 84 A

4 channels, incl. alarm lamp and horn



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We reserve the right of modification