

GMA81/ GMA81 A

Fixed gas controller for wall-mounting



The GMA81 is a single channel controller for one detection point. Together with GfG's powerful and robust transmitters the GMA form complete systems for monitoring of gas hazards for many applications.

Easy wall mounting

The robust GMA housings can be easily mounted to the wall. You do not need cabinets or additional enclosures. The small size allows space saving installation. The terminal bars for electrical connections are easily accessible behind a cover at the front. The casing is robust and splash water proof (IP54).

Monitoring more than 500 gas hazards

The gas monitoring systems allow detection of more than 500 gases. You can adapt the GMA settings to any monitoring task for individual and cost effective solution of your specific requirements.

Detecting - Recognizing - Warning

Once the gas concentration at the transmitter exceeds a certain threshold, the GMA recognizes the danger and triggers an alarm. The controller provides 3 threshold alarms, which can be programmed individually. Adjustable alarm delay eliminates false alarms. Every threshold is adjustable within the detection range and can be latching / non-latching and resettable / non-resettable. This allows the best possible adaptation of the controller to your specific detection task. All settings can be changed, even at a later stage.

Integrated alarm devices

The GMA81 A model provide integrated audible and visual alarm devices. A bright flashlight on top of the GMA indicates a gas alarm. A buzzer is built-in additionally, thus saving space and wiring efforts. Of course these models include the 4 voltage-free relays, which are standard for the GMA controllers.

Technical Data

Gases:

Depending on transmitter: Combustible and toxic gases and vapors, oxygen

Detection range:

Depending on requirement: ppm, % LEL, % Vol.

Ambient temperature: -10°C .. +55°C

Power supply: 230 V AC

Power consumption: Max. 4 W, normal 2 W

Input signal: 0,2 .. 1 mA / 4 .. 20 mA

Output signal: Linearized signal 4 .. 20 mA

Alarms:

3 alarm thresholds,
individually adjustable within the detection range

Alarm functions:

Exceeding / falling below,
Latching / non-latching,
Resettable / non-resettable,
Adjustable hysteresis,
Alarm delay 0 .. 2 minutes,
De-activation variably adjustable

Relay outputs:

4 voltage-free relay outputs for alarm and fault, NC contacts, NO contacts, change-over contacts
Load: 1000 VA, 5 A

Display:

3-digit LED display for linearized measurement values, service
1 LED green – Operation
1 LED yellow – Fault
3 LED red – Alarm
Indication of peak and minimum values

Function keys:

4 keys for all functions, e.g. alarm thresholds, calibration, function and relay test

Calibration:

Automatic zeroing, calibration by means of measurement value memory

Housing:

130 x 209 x 95 mm (WxHxD)
135 x 247 x 95 mm (WxHxD) GMA81 A
IP54, splash water proof

ATEX-certificate:

II (2)G BVS 03 ATEX G 006 X C€0158

Function Test:

PFG-No. 41300600 P



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