

# GMA44/ GMA44 B/ GMA44 EC/ GMA44 ECB

## Fixed gas control system for DIN-rail mounting



The controller GMA44 (for 4 transmitter) provides fixed gas control for more than 500 different combustible and toxic gases and oxygen.

### Flexible for every detection task

3 alarm levels can be set individually. The 3-digit LED display indicates the gas concentration permanently. Just push a button for detection range, gas and unit. Every controller provides 4 voltage-free relays for 3 alarm levels and fault warning. The relays may be used to control external alarm devices (beacons, buzzers) or to shut solenoid valves or to start a fan as specific counter measures to prevent or limit potential gas hazards.

### Easy calibration

Menu driven zero-point adjustment and calibration are effected by means of touch keys, i.e. you can forget the turning of potentiometers like you did in the past.

### Memory

The peak or minimum memory allows the exact determination of a gas hazard once the alarm was triggered. The GMA stores the peak or the minimum measurement value. Just touch a key to read the value from the LED display.

### Reliable and good value

The independent watch dog of the GMA checks the microprocessor functions, the parameter memory, the circuitry and the sensor every second, thus providing an essential lead in safety. The current consumption of gas monitors depends on the number of detection points and on the transmitter type. 3 different voltage modules are available for best possible use yet lowest cost.

An internal plug-on system allows to combine as many GMAs as you want (model B) and to monitor a number of detection points.

## Technical Data

### Gases:

Combustible and toxic gases and vapors, oxygen, for all GfG transmitters

### Detection range:

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

### Ambient temperature:

-20°C .. +55°C

### Power supply:

24 V DC, 230 V AC

### Power consumption:

Max. 4 W, normal 2 W

### Input signal:

0.2 .. 1 mA / 4 .. 20 mA

### Dimensions:

106 x 90 x 58 mm (WxHxD)

### Calibration:

Automatic zeroing,  
easy one-man calibration by means of  
measurement value memory

### Alarm functions:

Exceeding / falling short,  
Latching / non-latching,  
Resettable / non-resettable  
Adjustable hysteresis  
Alarm delay 0 .. 2 min.

### Relay outputs:

Load 1000 VA, 5 A

### Display:

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

### Function keys:

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

### Models:

**GMA44** Power supply 24 V DC

**GMA44 B** Power supply 24 V DC, bus system

**GMA44 EC** Electrochemical transmitters, power  
supply 230 V AC

**GMA44 ECB** Electrochemical transmitters, power  
supply 230 V AC, bus system



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