

GMA43/ GMA43 B/ GMA43 EC/ GMA43 ECB

Fixed gas control system for DIN-rail mounting



The controller GMA43 (for 3 transmitter) provides fixed gas control for more than 500 different combustible and toxic gases and oxygen.

Flexible for every detection task

3 single 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 single alarms 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 zeropoint 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/m³

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:

GMA43 Power supply 24 V DC

GMA43 B Power supply 24 V DC, bus system

GMA43 EC Electrochemical transmitters, power
supply 230 V AC

GMA43 ECB Electrochemical transmitters, power
supply 230 V AC, bus system



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