

GMA41/43/44

Controller for 500 Gases



- State-of-the-art microprocessor technology
- Flexible, reliable and suitable for all detection tasks
- Collective alarm with key switch
- DIN-rail mountable

Worldwide Supplier Of Gas Detection Solutions



Fixed Gas Monitor for DIN-rail mounting

The controllers GMA41 (for 1 transmitter), GMA43 (for 3 transmitters) and GMA44 (for 4 transmitters) provide 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 adjustable alarm delay eliminates false alarms. 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 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.



GMA43 with key switch

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.



Safer handling

Alarm thresholds and span are adjusted by means of menu driven routines. This means that a „one-man calibration“ is possible even when the transmitter is far away from the GMA.

GMA41 / GMA43 / GMA44 Technical Data

Gas:

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

Output signal:

Linear signal 4 .. 20 mA

Dimensions:

106 x 90 x 58 mm (WxHxD)

Calibration:

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

Alarms:

3 alarm thresholds, individually adjustable within the detection range

Alarm functions:

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

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 peak and minimum values
1 LED green - Operation
1 LED yellow - Fault
3 LEDs red - Alarm

Function keys:

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

ATEX certificate (GMA41):

Ⓔ II (2) G BVS 03 ATEX G 005 X

Function Test (GMA41):

PFG Nr. 41300500P

Models:

GMA41/GMA43/GMA44

Voltage supply 24 V DC

GMA41/43/44 B

Voltage supply 24 V DC, bus system

GMA41/43/44 EC

Electrochemical transmitters, voltage supply 230 V AC

GMA41/43/44 ECB

Electrochemical transmitters, voltage supply 230 V AC, bus system

Voltage supply modules:

PS 12 (12 W)

PS 30 (30 W)

PS 50 (50 W)

Accessories:

Buzzer, siren, flashlight, beacon



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