

# GMA36 Pro

Transmitter and Controller in one unit  
– for Toxic Gases, Oxygen and Hydrogen

Edition 1  
2004



Flexible wall-mount gas monitor

Pluggable Smart Sensors

Big LCD Display

AutoCal for easy and quick calibration

3 key control, simplified maintenance

**Worldwide Supplier of Gas Detection Solutions**



# GMA36 Pro

## - reliable monitoring of Toxic Gases, Oxygen and Hydrogen

The GMA36 Pro is an intelligent and flexible monitoring device for a continuous surveillance of toxic Gases, Oxygen and Hydrogen.

### Alarming in case of gas hazard

An alarm is triggered, if the gas concentration reaches a preset threshold. The GMA36 Pro features two alarm levels.

An alarm is shown by the corresponding alarm LED. Simultaneously with the alarm LEDs the GMA36 Pro activates the relevant alarm relay. With overranging the exposure limit 2 a built-in horn and the horn relay are switched additionally.

3 relays are available:

- 2 alarm relays for controlling external alarm annunciators, valves etc.
- 1 horn relay for messaging an overranging of the alarm exposure limit 2 or a malfunction.

### Most simple operation

The configuration and calibration is menu-assisted and easily controllable by the 3 keys. This makes the operation and

maintenance more simple and enhances the operational reliability enormously.

The **AutoCal program** automatically adjusts the measurement signal of the test gas during calibration.



### Large Display

The large display informs continuously about the measured gas concentration, exposure limit overranges and the operation status.



### Pluggable Smart Sensors

The electrochemical Smart Sensors integrated in the GMA36 Pro are pluggable and easily replaceable – without opening the housing. No other adjustments are required – No waste of time and costs.

The unit is widely protected against dust and sprays (IP54).

## GMA36 Pro – Technical Data

### Detection principle

electrochemical

### Response time $t_{90}$

depends on type of gas

### Gas supply

by diffusion

### Humidity

15 .. 96 % r.h.

### Temperature

-25° .. +55° C (storage)  
-15° .. +45° C (operation)

### Pressure

920 .. 1080 hPa

### Supply voltage

85...264V / 50-60Hz

### Power consumption

< 5W

### Display

big 4-digit LCD

### Relay outputs

Max. switching voltage:  
250V AC 50/60Hz resp. 250V DC  
Max. switching current: 5 A AC/DC

### Housing

Weight: 900 g  
Dimensions: 135 x 247 x 95 mm (WxHxD)  
Ingress protection: IP 54  
Housing material: Compound (PS)  
Sensor material: stainless steel

### Electro-magnetic compatibility (EMC)

according to EN 61000-6-3 resp.  
EN 61000-6-4 and EN 50270  
Type 1 and Type 2

## Gases and Detection Ranges (ppm)

All detection ranges are scalable – except of HF and O<sub>3</sub> (0 .. 1 ppm)

Ammonia NH <sub>3</sub>	Chlorine Cl <sub>2</sub>	Chlorine dioxide ClO <sub>2</sub>	Hydrogen chloride HCl	Hydrogen cyanide HCN	Ethylene oxide C <sub>2</sub> H <sub>4</sub> O	Hydrogen fluoride HF	Carbon monoxide CO
0 .. 200 0 .. 500 0 .. 1000	0 .. 50 0 .. 250	0 .. 2	0 .. 30 0 .. 200	0 .. 50 0 .. 200	0 .. 100	0 .. 10	0 .. 500 0 .. 2000

Ozone O <sub>3</sub>	Phosgene COCl <sub>2</sub>	Oxygen O <sub>2</sub>	Sulfur dioxide SO <sub>2</sub>	Hydrogen sulphide H <sub>2</sub> S	Silane SiH <sub>4</sub>	Nitrogen dioxide NO <sub>2</sub>	Nitrogen monoxide NO	Hydrogen H <sub>2</sub>
0 .. 1 0 .. 5	0 .. 2	0 .. 30 Vol.-%	0 .. 50 0 .. 500	0 .. 200 0 .. 1000	0 .. 50	0 .. 50 0 .. 200	0 .. 300 0 .. 1500	0 .. 2000 0 .. 1 Vol.-% 0 .. 4 Vol.-%



GfG Gesellschaft für Gerätebau mbH  
Klönnestraße 99, D-44143 Dortmund  
Phone: +49-(0)231-56 40 00  
Fax: +49-(0)231-51 63 13  
E-mail: [info@gfg-mbh.com](mailto:info@gfg-mbh.com)  
Internet: [www.gfg.biz](http://www.gfg.biz)

We reserve the right of modification