

# GMA 80A Series

Compact Controller for All Transmitters



- Wall mounted enclosure
- State-of-the-art microprocessor technology
- Flexible, for all measuring tasks
- For 1 to 4 transmitters
- Can be reconfigured at a later time
- Built-in alarm light and horn

# Controller for Remote Sensors

The GMA 80A series is a universal controller that delivers accurate readings for any single explosive, toxic or oxygen gases or vapors. The design of the GMA 80A makes it an economical choice for applications that require compact, continuous and reliable monitoring.

## Maximum control

The GMA 81A controllers will accept a signal from any one transmitter and the GMA 84A can control and monitor up to four GfG sensors of the same type. The three digit LED displays the transmitter readings; status LEDs verify operation and indicate alarm points and sensor faults. Additionally, if an alarm point or sensor fault occurs, the case mounted alarm horn and light will sound a warning and activate or deactivate the onboard relays.

## Flexible and adaptable

Once programmed for a gas, the controller can be adapted to its application. Three alarm points which can be easily adjusted in the field and one fault alarm will trigger voltage free contacts to activate or deactivate external devices like fans, horns, auto dialers etc. The GMA 81A is equipped with a linear 4-20 mA output for easy connection to recorders, meters or PLCs. Menu driven zero-point adjustment and calibration are easily performed with the keypad to make maintenance and calibration simple.



# Technical Data

## GMA 80 series

### Power (standard)

120 VAC / 60 Hz  
230 VAC / 50 Hz (optional)

### Power consumption

Maximum 30 watts

### Number of channels

One (GMA 81A)  
Four (GMA 84A)

### Display

3 digit numeric LED  
Power, alarm points and fault LEDs

### Alarms

Three user adjustable latching or non-latching alarm points  
Visual LED lights and display, case mounted alarm horn and light

### Relays (voltage free)

3 alarm points, 1 fault  
Voltage: 250 VAC 50 / 60 Hz or 250 VDC maximum  
Current: 4 A AC / DC maximum

### Transmitter connection

2 or 3 shielded conductor wire  
Voltage output: 18 to 24 VDC  
Signal input: 4-20 mA or 0.2-1 mA  
Output signal (GMA 81A)  
Linear 4-20 mA

### Operating temperature

+14 to +131 °F / -14 to +55 °C

### Humidity

0 to 99% RH

### Housing

Wall mounted ABS plastic  
IP 54 (NEMA 4) dust and splashed water protection

### Weight

GMA 81A  
2.2 pounds (998 g)  
GMA 84A  
6.6 pounds (2,994 g)

### Dimensions

GMA 81A  
8.5x5.3x3.75 inches (135x217x95 mm) (HxWxD)  
GMA 84A  
10x10x4.8 inches (255x255x123 mm) (HxWxD)

*Specifications subject to change without notification*

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