

# Gas detector GM 2.1



- For early detection of natural gas and liquefied gas
- Audible and visual alarms; Acknowledge button and relay output
- Self-monitoring for line interruption, short circuit and sensor defect



**Application** For continuous monitoring for explosive gases and vapours and for generating alarms in conjunction with the appropriate sensors. GM 2.1 is installed in heating rooms and basements, storage, office and residential buildings to increase safety. Not suitable for installation in hazardous areas (EX areas).

**Description** Alarm unit in a wall mounting housing with audible and visual alarms. GM features an alarm threshold and is equipped with a relay contact. If the threshold value is exceeded, the unit generates an alarm. The red LED lights up, the audible alarm goes off and the alarm relay switches. The audible alarm can be muted with the Acknowledge button. When the alarm condition no longer exists, you press the Acknowledge button again to clear the visual alarm (alarm memory). The alarm can only be cleared with the Acknowledge button if the cause of the alarm has been removed. If the concentration still exceeds the alarm threshold, pressing the Acknowledge button does not clear the alarm. The voltage-free relay contact allows you to switch additional external signalling equipment such as the event reporting system EMS, horns, lamps in the case of alarm or fault conditions. GM is suitable for panel mounting with a mounting frame. A DIN rail clip is available for fast and easy mounting of GM to standard rails (DIN rail/EH50022). A sealing kit (IP 54) is available for rough application conditions.

GM 2.1 can be combined with suitable gas sensors:

- 1 gas sensor (methane or propane/butane)
- 2 gas sensors, also for different gases (methane and/or propane/butane)

## Technical specifications

### Inputs

2 sensors  
Connection cable 3 wires  
Wire cross section > 0.5 mm<sup>2</sup>

### Distance control unit – sensor

Max. 150 m

### Alarm threshold

1 permanently installed alarm threshold for alarm at approx. 20 % LEL with alarm memory

### Indication

1 green LED: Operation  
1 red LED: Flashing: fault  
Steady on: alarm

### Audible alarm

Piezo buzzer approx. 70 dB(A), can be acknowledged

### Switching outputs

Relay contacts: 1 voltage-free changeover contact  
Contact rating: AC 250 V, 2 A

### Supply voltage

AC 230 V

### Power input

15 VA

### Operating temperature range

Ambient: 0/40 °C

### Housing

Wall mounting housing made of impact-resistant plastic (ABS)  
W x H x D: 100 x 188 x 65 mm  
Weight: 0.55 kg  
Degree of protection: IP 40 (EN 60529)



Please order sensors separately.

DG: H	PG	Part no.	Price €
<b>Gas detector GM 2.1</b>	4	<b>61150</b>	
<b>DIN rail clip</b>	1	<b>43100</b>	