Gas alarm units GW-S 2.1 / GW-S 4.1 in wall mounting housing

- **For connection of two or four gas sensors (measuring points)**
- **Digital display for concentration, programming and calibration data**
- **Alarms: memory mode or volatile mode (1–2)**
- **Self-monitoring for line interruption, short circuit and power outage**
- **Data logger (data logger)**

Application

For continuous monitoring for flammable or toxic gases as well as oxygen in ambient air. Ideal for industrial and building technology applications. Not suitable for use in hazardous areas (EX areas).

Description

Freely programmable gas alarm unit in a compact wall mounting housing for the connection of up to four gas sensors. The control unit can monitor various types of gases. GW-S can be operated in single-stage or dual-stage mode. Limit values can be set as required.
Four integrated relays can be assigned as required (1 relay is used for general alarm and 1 relay for the audible alarm signal (horn)). The other relays are available for control outputs.

The gas alarm system features a display with alternating indication of measured values and three operating levels:
1. Measurement level: Displays measured values, faults, alarms
2. Parameter level: Displays measuring ranges, limit values, alarm groups
3. Service level: Displays limit values, performs function checks of the relays, parameterisation (such as alarm group and limit value settings)

GW-S alternately displays the concentration of the gas in the ambient air. If a sensor exceeds alarm level 1 or alarm level 2, the visual alarm and the alarm relay are activated. When the concentration falls below the alarm level, the alarm is cleared. It is also possible to program GW-S in such a way that alarm level 2 remains stored until a manual reset. The activation of the relay for the horn can also be programmed for each alarm level. Stop mode allows for permanent indication of the concentration at a given measuring point. GW-S is self-monitoring (line interruption, short circuit and power outage) and signals faults via LED and fault relay. In addition, the display shows an "E". The alarm function can be tested without test gas.
Version GW-S 2.1 for connection of up to two gas sensors.
Version GW-S 4.1 for connection of up to four gas sensors.

Technical specifications

Sensor inputs
4–20 mA
GW-S 2.1: 2 gas sensors can be connected
GW-S 4.1: 4 gas sensors can be connected
Digital interface: RS 232 for configuration

Alarm thresholds
Max. 2, adjustable, memory mode or volatile mode

Switching outputs
4 voltage-free relay contacts AC 250 V, 1A

Controls
Keypad for alarm and horn reset, edit, menu selection, confirmation

Indication
Digital display for: concentration value, menu
LEDs for:
- Alarm and fault for each measuring point
- Operational, horn and indicated measuring point

Supply voltage: AC 230 V

Power input: Max. 20 VA

Operating temperature range
Ambient: -10/+40 °C

Housing
Wall mounting housing
W x H x D: 240 x 120 x 190 mm
Weight: 1.3 kg
Degree of protection IP 54 (EN 60529)

Connectable sensors
Series 400, 500, 600, 700 and 800

Option
- Data logger

DG: H, PG: 4	Part no.	Price €
GW-S 2.1	**61146**	
GW-S 4.1	**61145**	
Version with data logger		**On request**

Blue part no. = in-stock items

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Suitable gas sensors (series 400–800) see pages 351–353.