

Gas alarm system GW-SK 6.1 in DIN rail housing



- For connection of up to six gas sensors (measuring points)
- Digital display for concentration, programming and calibration data
- Alarms: memory mode or volatile mode (1–4)
- 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 system in a compact DIN rail housing for the connection of up to six gas sensors. The control unit can monitor various types of gases. GW-SK can be operated in single-stage or dual-stage mode. Limit values can be set as required. 6 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. Among others, the following combinations are possible:

- 1 alarm threshold, 6 sensors, 4 alarm groups
- 2 alarm thresholds, 6 sensors, 2 alarm groups
- 3 alarm thresholds, 6 sensors, 1 alarm group

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-SK 6.1 alternately displays the concentration at each measuring point. 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-SK 6.1 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 6.1 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.

Technical specifications

Sensor inputs
4–20 mA
Up to six gas sensors can be connected
RS 232 interface for configuration

Alarm thresholds
Max. 4, adjustable, memory or volatile mode

Switching outputs
6 voltage-free relay contacts

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

Indication
Digital display for concentration values, menu LEDs for:

- Alarm and fault for each measuring point
- Operational, horn and indicated measuring point

Supply voltage: 24 V DC, ± 5 %

Power input: 24 V max. 30 W, without measuring system approx. 3 W

Electrical connections
35-pin screw terminals

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

Housing
DIN rail housing (DIN 43880)
Can be clipped onto 35 mm DIN rails
W x H x D: 105 x 71 x 90 mm
Weight: 650 g
Degree of Protection IP 20 (EN 60529)

Option
Serial interface, data logger, emergency power system

DG: H; PG: 4	Part no.	Price €
GW-SK 6.1	61163	
Options		
Power supply unit NTE 24 SK for AC 230 V operation	69114	
Emergency power supply NSV, 24 V operation	69115	On request
Data logger		On request

Blue part no. = in-stock items

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