



Gas alarm system in DIN rail housing

benefits

- 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 6.1 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 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
GW-SK 6.1
up to 6 gas sensors can be connected
Interface: RS 232 for configuration

alarm thresholds

max. 4, adjustable, memory or volatile mode

switching outputs

6 voltage-free relay contacts
Contact rating: AC 250 V, 1 A

controls

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

Indicator

Digital display for concentration values, menu
Alarm and fault for each measuring point
Operational, horn and indicated measuring point

Supply voltage

DC 24 V $\pm$ 5 %

Power input

max. 30 W
without measuring systems: ca. 3 W

Options

- serial interface
- Data logger
- Uninterrupted power supply

Electrical connection

35-pin screw terminals

Operating temperature range

Ambient: -10/+40 °C

Housing

DIN rail housing (DIN 43880)
for 35 mm DIN rails
W x H x D: 105 x 71 x 90 cm
Weight: 650 g
Degree of protection: IP 20 (EN 60529)

Versions

Part no.

Gas alarm system
GW-SK 6.1



61163

-  in-stock items
-  Non-stock items