

# 8-CHANNEL GAS-DETECTOR “GAS ALARM SYSTEM DG 510/8”

*(wall mountable)*

- 8 Independent channels
- 2 Alarm levels for each channel
- Each channel individually programmable
- Of any channel alphanumeric display
- The concentration of gas audible alarm and LEDs Indication
- Real time clock
- Relay outputs 5A/250 V
- RS485 - optional



## GENERAL DESCRIPTION

The 8-channel Gas-detector "GAS ALARM DG510/8" is purposed for signaling anytime, when concentration of flammable and explosion hazardous and toxic gases exceeds permissible limits. Its application includes mounting in pump units, gas stations, filling stations, dyeing units and other areas, where gas-powered units and equipment are used, or where combustible or toxic vapors and gases are found. The device work with transmitters series DGS510 or other suitable protection. Station to be mounted in areas with normal risk of fire. Each of the channels has two programmable levels - pre-alarm and alarm level. For each level there is LEDs indication “ALARM” and relay output which may switch off the power supply, operate a shut-off valve for stopping the gas flow, switch on a siren, etc. An audible alarm is switched on if the gas concentration exceeds one of the alarm levels. Each Relay Outputs can be programmed to be activated with some time delay after the pre-alarm level is reached. The measured value of the gas concentration for every channel is visualized on LED display with four digits. Month, date, hour and minutes, when the gas concentration exceeds one of the alarm levels, are saved in the volatile memory of the transmitter and can be visualized on the display. When interrupted cable or a faulty transmitters activated relay output common to all channels on the display corresponding LED FLT channel and sound signal is activated. On your request , an optional module is mounted buffer power , providing continuous operation for the gas detector mains voltage. Switching to battery power automatically . Recommended capacity 12V battery is a 6- 8Ah . During charging, the battery LED indicates "CRG", when working on a battery - "ACCU", and at 230V - "PWR". Optional interface via RS485 connection is provided with a computer or system of the upper level .

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## TEHNICAL SPECIFICATIONS

Power Supply	230V AC, 50Hz
Gas Detected	Methane, Propane-Butane, Natural Gas, Ammonia, Ethylene, Organic Dissolvent Vapors and other
Pre-Alarm Level (LL)	Programmable in the range $0 < LL < HL$
Alarm Level (HL)	Programmable
Number of channels	8
Pre-Alarm Level Output (LL)	SPDT Relay, 5A/250V - for each channel
Alarm Level Output (HL)	SPDT Relay, 5A/250V - for each channel
Output for Transmitter or Cable Failure	SPDT Relay, 5A/250V - common to all channels
Alarm	LED and Audible
Display	Alphanumeric
Control Block Operating Temperature	$0 \div + 50 \text{ }^{\circ}\text{C}$
Dimensions	295 x 370 x 140 mm
Protection	IP 54
Explosion-proof Transmitters	 II 2 G Ex d IIC T6 Gb

## CONNECTIONS DIAGRAM

