

Flammable gas alarm for household use СГГ10-Б



Designed for continuous automatic monitoring of concentrations of natural or liquefied gases. Generation of light and audible alarms in case of appearance of pre-explosive gas concentration in monitored premises. Shutoff of gas pipeline by means of quick-acting electromagnetic valve.

Application

Accommodation, public spaces with heating facilities with closed or open combustion chamber. Spaces equipped with gas burner units using natural or liquefied gases.



Principle of operation – thermochemical.
Sampling – diffusion.
Type of gas alarm – fixed.

Basic technical characteristics

Characteristics	Values	Remarks
Alarm actuation thresholds (on methane), % LEL: 1 threshold (emergency / warning) 2 threshold (emergency)	10 20	emergency alarm «GAS» blocking (switched off by pressing the button «RESET»)
Parameters of optoelectronic relay Parameters of mechanical relay Intrinsic absolute error, % LEL, not more	40 V; 0,2 A 220V; 2,5A ± 5	normally open normally closed
Zero autocalibration	once a month	
Protection degree	IP 42	
Supply voltage, V	100-250	(50 ± 1) Hz
Ambient temperature range, °C	-10 / +50	
Output to valve, V (pulse voltage)	40	КЭГ-9720 (Ду=15; 20; 25; 32)
Consumed power, VA	6	СГГ10-Б-М не более 12
Warm-up time, min	5	
Alarm actuation time, s, not more	15	
Overall dimensions, mm	144x96x42	
Weight, kg	0,2	
Average lifetime of gas alarm, years	10	for sensor 5 years



Specialized versions СГГ10-Б-И and СГГ10-Б-ПК (in combination with data acquisition and transfer unit БСР-ПК) that are capable of transferring data by interface RS485 and radio channel, respectively, are used for creation of monitoring networks for control of pre-explosive concentrations of flammable gases in apartment buildings and in entrance halls of residential buildings and other large area accommodation spaces and administration facilities.

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Gas alarms versions

Name	Values of alarm actuation threshold «GAS»	Availability of dry contacts	Availability of interfaces		Executive device
			RS485	radio channel	
СГГ10-Б	selected by customer by means of setting of jumpers on management port from the following possible values: 01. one threshold: emergency-10% LEL;	-	-	-	electromagnetic valve with pulse control
СГГ10-Б-МР		electromechanical relay	-	-	
СГГ10-Б-ОР		optoelectronic relay	-	-	
СГГ10-Б-И	02. one threshold: emergency -20% LEL;	-	+	-	
СГГ10-Б-РК		-	-	+	
СГГ10-Б-М	03. two thresholds: warning-10% LEL, emergency - 20% LEL.	-	-	-	gas shutoff mechanism

Advantage

- > Compliance with ГОСТ Р ЕН 50194-2008 and EN 50194:2000;
- > Possibility to organize network through interface RS485 (СГГ-10Б-И) or radio channel (СГГ-10Б-РК);
- > Availability of dry relay contacts (СГГ10-Б-ОР; -МР);
- > Cables connection without soldering (terminal block);
- > Possibility to feed power supply with buried wiring;
- > Availability of button "reset-test" for gas alarm testing;
- > Zero autocalibration when activated or once in 30 days.



Optional items can be ordered

- > Thermochemical sensor TCS (ИБЯЛ.413226.105 (for gas alarms СГГ10-Б, СГГ10-Б-МР, СГГ10-Б-ОР and СГГ10-Б-М) or ИБЯЛ.413226.105-01 (for gas alarms СГГ10-Б-И and СГГ10-Б-РК) instead the sensor that has reached the end of its service life;
- > Data acquisition and transfer unit ИБЯЛ.422379.001 for gas alarms СГГ10-Б-РК;
- > Disk CD-R with software for ИБЯЛ.431214.330 (for gas alarms СГГ10-Б-И) and ИБЯЛ.431214.331 (for gas alarms СГГ10-Б-РК);
- > Calibration cap ИБЯЛ.725313.008;
- > Gas shutoff mechanism ИБЯЛ.303141.002.



Standard equipment

- > Flammable gas alarm СГГ10-Б;
- > SPTA set;
- > Documentation.



Set of wires (2x0,75-5m and 2x0,5-3m) for connection of electromagnetic valve to network is ordered separately.