

GAS LEAK DETECTOR GS-133

The GS-133 detects all mixtures of air and combustible gas (Natural Gas, Methane, Propane, Butane, Acetylene, GPL, Hydrogen, etc). The detector detects two levels of gas concentration - different output reactions.

The main GS-133 features are: high reliability and sensitivity, compact size and long stability & lifetime.

Specification

power supply	12 V DC \pm 20%
power consumption	100 mA (150mA when relay is activated)
detection method	hot wire type (catalytic combustion)
buzzer sound level	94dB/0.3m
relay output	optional for 1 st or 2 nd level, max.250V/5A
alarm memory	selectable
response time	10 s
external signaling	AUX connector
EMC	EN 50081-1, EN 50082-1
gas detection	EN 61779-1,4



Sensitivity :

	iso-butane	methane
1 st level	15 \pm 3% LEL (0,20% ISO-butane)	10 \pm 2% DMV (0,44% methane)
2 nd level	30 \pm 3% LEL (0,39% ISO-butane)	17 \pm 3% DMV (0,75% methane)

Complies with the essential requirements of: 89/336/EC EMC Directive - Protection concerning electromagnetic compatibility when is used for its intended purpose. Original of the conformity assessment can be found at the web page www.jablotron.cz, section Technical support.

Note: Although this product does not contain any harmful materials we suggest you to return the product to the dealer or directly to the producer after usage.

Installation

Fix the detector on the wall. For gases lighter than air (natural gas, city gas etc.) install it close to the ceiling, for heavier gases (propane, butane, etc.) install it close to the floor. The detector should not be located close to any obstacles protecting natural air circulation.

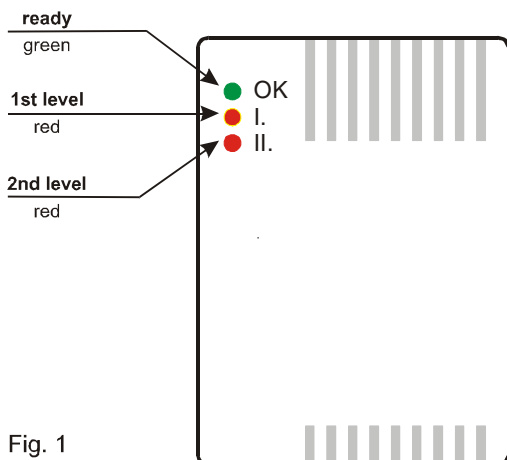


Fig. 1

Output relay function

There is a dry relay contact available on the GS-133 output terminals:

- C** - common contact
- NO** - normally open contact
- NC** - normally closed contact

This relay output can be used for an automatic gas valve stop, alarm system triggering or for other warning systems.

If the **REL jumper** is open, the relay will be triggered after the 1st level of gas concentration is detected. If the REL jumper is closed, the relay will be triggered after the 2nd level of gas concentration is detected.

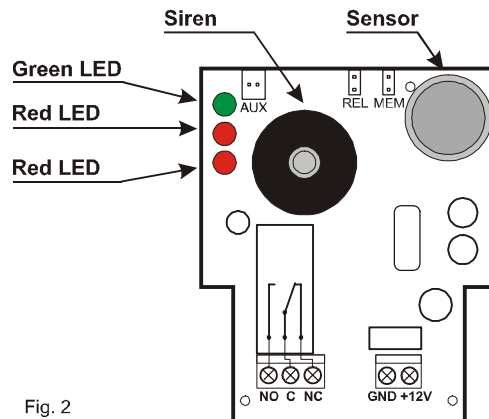


Fig. 2

Function

After switching the power on the green LED will flash for 60sec. (the detector warms up). When the green indicator lights permanently the detector is ready.

If the gas concentration reaches the 1st level, short beeps will sound and the red I. LED will go off.

If the gas concentration reaches the 2nd level, long beeps will sound and the red II. LED will go off.

The output relay reacts depending on the REL jumper setting.

LED indicators		
Green	<ul style="list-style-type: none"> OFF flashes ON 	the detector is off warming up ready for gas alarm
Red I.	<ul style="list-style-type: none"> ON 	1 st level of the gas concentration
Red II.	<ul style="list-style-type: none"> ON 	2 nd level of the gas concentration
Red II. Green	<ul style="list-style-type: none"> Alternating flashes 	error of the sensor

Warning - In the case of a gas alarm stay calm and act as follow:

- do not operate any switch
- do not use any kind of phone in the location of the gas leakage
- open windows
- stop the gas leakage if possible or leave the place and call a fire company

Memory

From the factory the memory function is disabled (when the concentration of the gas drops down to normal, the GS-133 will stop the alarm signal).

Close the MEM jumper to select memory function. Then the alarm indication if triggered will not stop unless the GS-133 power supply is terminated for a while.

External buzzer

You can connect an additional buzzer (model BUZ-12) to the AUX connector. The external sounder works the same way as the built-in one.

Testing

Use a gas cigarette lighter (no flame) to test the gas detector reaction. The detector will react after 15 seconds.



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