

GAS LEAK DETECTOR GS-130

The GS-130 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-100 features are: high reliability and sensitivity, compact size, 230V (110V optional) power supply and long stability & lifetime.

Furthermore the GS-135 option has a built-in transmitter to send an alarm signal wireless to the JA-60 system.

Specification

power supply	230V/50Hz (optionally 110V/60Hz), 5W
detection method	hot wire type
sensitivity of 1 st level	10 % LEL
sensitivity of 2 nd level	20% LEL
buzzer sound level	94dB/0.3m
relay output	optional for 1 st or 2 nd level, max.230V/5A
alarm memory	selectable
response time	less than 5 s
external signaling	AUX connector

Installation

The detector should be installed by a professional.

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.

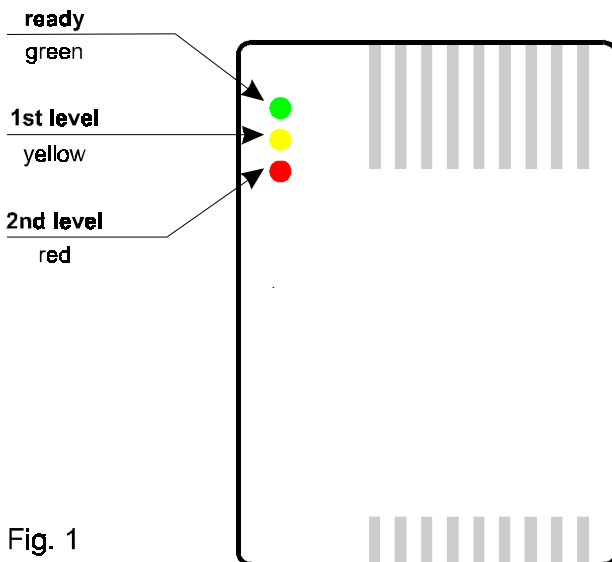


Fig. 1

Memory

From the factory the memory function is disabled (when the concentration of the gas drops down to normal, the GS-130 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-130 power supply is terminated for a while.

External buzzer

You can connect an additional buzzer (model BZ-14) to the AUX connector. The external sounder works the same way as the built-in one.

Power supply

Connect power cord to terminals marked 230V AC (or 110V AC). The power inlet should be fused with an external fuse (max. 10A).

Output relay function

There is a dry relay contact available on the GS-130 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.

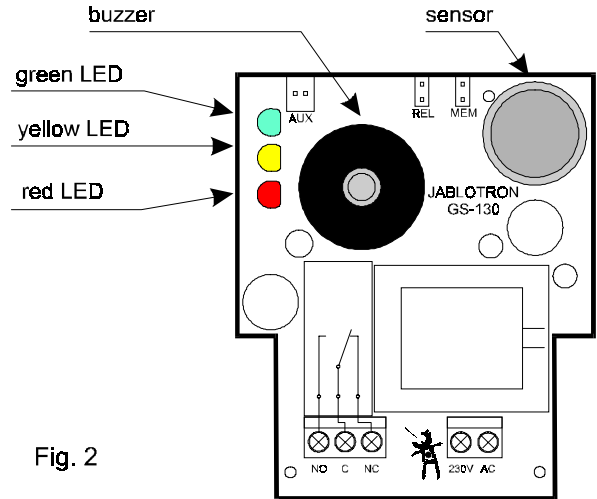


Fig. 2

Function

After switching the power on the green LED will flash for 10sec. (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 yellow LED will go off.

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

The output relay reacts depending on the REL jumper setting.

Warning - In the case of a gas alarm don't operate any switch, open windows, stop the gas leakage or call a fire company!

Testing

Use a gas cigarette lighter (no flame) to test the gas detector reaction

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



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