

GENERAL INFORMATION

H-220.CH4/LPG are flammable domestic gas leakage detectors. When flammable gas is present in concentrations higher than the dangerous threshold alarm level is activated. Red indicator burns and buzzer is turned on. Relay output can be used to close gas pipe electro valve.

H-220.CH4/LPG features a button with the following functions:

-If short pressed "SILENCING" mode is activated. Yellow LED flashes and buzzer and relay are disabled for 5min. After 6 seconds gas detector emits 2 short sounds and leaves "TEST" mode.

If pressed for more than 5 seconds "TEST" mode is activated. In this case green and red LED's are activated. Relay and buzzer are activated, too. After TEST mode the device returns to normal state.

H-220.CH4/LPG has auto diagnostic function. Gas detector continuously checks sensor and electronics status. If problem with sensor or electronics yellow LED is activated, green LED is lit and sound signal is activated.

TECHNICAL DATA

Power supply	230 VAC/50Hz
Power consumption	2W
Power connection:	
H-220.CH4	hard wired
H-220.LPG	hard wired
Sensor type	catalytic
Sensor lifetime	5 years
Detected gases:	
H-220.LPG	LPG
H-220.CH4	Methane
Alarm threshold	20% LEL
Relay activation delay	5 sec
Relay contact rating	2,5A-250V-SPDT
Indicators:	
Normal operation	Green LED
Alarm	Red LED/Sound
Fault	Yellow LED/Sound
Heating-up time	30 sec
Working temperature	0 - 40°C
Humidity limits	20 - 80% RH
Alarms sound level	>85 dB
Sizes	130x96x38mm
Weight:	
H-220.LPG	0,270kg
H-220.CH4	0,270kg
Enclosure material	ABS
Enclosure color	White (RAL 9003)

INSTRUCTIONS FOR USE

Choosing the mounting place

It depends from the relative weight of the detected gas:

- for CH4 detection H-220.CH4 must be mounted within 30cm from the ceiling;
- for LPG detection H-220.LPG must be mounted within 30cm from the floor.

Avoid to install gas detector in the position in which its normal operation could be compromised:

- directly over the cooking stoves;
- in an area where the temperature may drop below -10°C or exceed + 40°C;
- directly above a sink;
- in an enclosed space (e.g. in a cupboard or behind a curtain);
- next to a door or window;
- next to an extractor fan;
- where dirt and dust may block the sensor;
- in a damp or humid location.

Do not use the following substances near to the device:

- solvents and diluents;
- alcohol, fuels;
- silicones products and colors;
- perfumes;
- cleaning detergents;
- spray products.

To mount gas detector

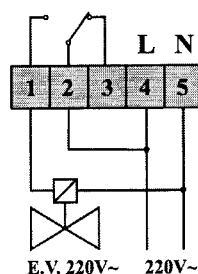
- Open the enclosure by pressing of the opening pin and lifting the cover.



Press the opening pin

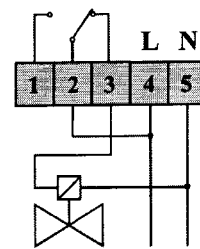
- Make electrical wiring according to the following diagrams:

Normally open electro valve



E.V. 220V~ 220V~

Normally closed electro valve



E.V. 220V~ 220V~

WARNING:

- Installation and wiring of gas detector must be made by qualified technician with compliance with the current standards.
- Before wiring this gas detector turn mains power off.
- To ensure correct operation periodic functional check is advisable. In order to check the proper efficiency of the device sensor a specific test gas bottle must be used. Any other method for testing, such as the use of cigarette lighters or flammable substances can lead to wrong conclusions and damage the sensor.

WARNING in case of alarm:

- Extinguish all fire sources.
- Stop gas supply by closing main gas valve.
- Do not turn on or off any electrical devices.
- Open doors and windows to increase ventilation.

When alarm stops it is necessary to find gas leaking cause. If alarm persists and the leak can not be found, vacate the premise and immediately inform the gas emergency service.

In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

The consumer is guaranteed against any lack of conformity according to the European Directive 1999/44/EC as well as to the manufacturer's document about the warranty policy.