

methane and propane-butane gas detector

BEFORE installing refer to the full text MANUAL! For safety during installation and operation of the detector is required to use the recommendations and warnings of this instructions. It is also a WARRANTY CARD!

DESTINATION

Detector MAXI / Q-CO is designed for monitoring combustible gas (methane, propane-butane) in closed rooms. The detector performs constant measuring the concentration of this gas in the air. When gas reaches 15% of lower explosion limit (gas concentration about 7 times lower than gas can explode), optical and acoustic alarm signal turn on. Additional outputs (MAXI/K-GP230, MAXI/K-GP12 version) allow to connect detector to alarm systems and control electro valves and optical-acoustic modules (acoustic signal, leds). When gas concentration gets lower than alarm threshold, alarm system turns off automatically.

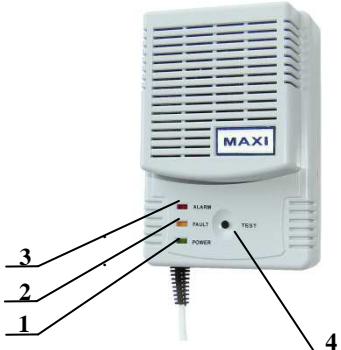
APPLICATIONS

- BOILER ROOMS with stores fired by natural gas – methane or propane-butane in the bottle,
- KITCHENS and BATHROOMS equipped with gas appliances for example: cookers, stoves, water heater,
- Rooms with gas devices, such as gas meters, cylinders, tanks, gas pipes (boiler rooms, corridors), portable gas water heaters,
- Home Garages with LPG gas fittings,
- School physical-chemical labs,
- Public places

MAXI / K-GP is a microprocessor-controlled device, fully automatic, does not have any regulatory elements that require handling by the user !!!

Therefore, each attempt to interfere in the internal circuitry of the detector, a violation of seals, change the output configuration, splashing water or other liquids may result in: - the loss of any warranty, - may cause electric shock - can cause permanent damage to the detector - can trigger a change electro parameters measuring the detector, and thus result in loss of functionality as a warning device.

DESCRIPTION OF DETECTOR



- 1 - green "POWER" LED indicates power detector
- 2 - yellow "FAULT" LED indicates damage detector
- 3 - red "ALARM" LED indicates danger
- 4 - "TEST" button is used to verify the correct operation of optical-acoustic detector elements

Attention: If you want to check the detector, hold "TEST" button for 5 seconds. If the detector launch yellow LED, red LED (4 flashes) and then turn on an acoustic signal - the detector is working properly.

INSTALLATION

Gas detector MAXI / K-GP should be installed on the wall in close proximity of the expected sources of leakiness of gas fitting not more than 5 meters away. In most cases, the optimum installation place of the detector is:

- > On the wall at a height of head of an adult man (approx. 180 cm), not less than 30 cm from the ceiling, concerns natural gas – methane and about 30 centimeters from floor in case of propane-butane gas in bottles
- > in a place not protected by furnitures, curtains or other items that can reduce air flow to the detector
- > away from vents and windows
- > no closer than 1m from gas cookers, micro ovens and ovens
- > not in direct sunlight exposure places, not threatened by the direct influence of water vapor, water sprays, combustion gases from furnaces or internal combustion engines

This device is not for:

- people (also children) who are limited by physical, sensory and intellectual abilities
- people without experience or knowledge about this device unless it is under supervision according to instruction

ALARM

When acoustic and optical alarm signal turn on, it means that gas concentration in monitoring room is higher than 15% of lower explosion limit. It means the air does not contain enough gas to explosion, however, there is a danger of explosion without fast intervention.

The intervention relies on:

- Turning out sources of open fire- cigarettes, candles and the like
- Block gas in cooker, water heater, close main valve in cylinder, tank or installation
- Is not allowed to turn on electric equipment or lighting in this time
- Not turn on detector
- Not use the home or mobile telephone in room where in danger
- Open windows and doors widely
- If source of gas emission is not clear, you should call the gas emergency service or suitable technical supervision

DETECTOR CONTROLLING METHOD

After mounting and connecting the detector according to installation rules, green LED turns on (which means voltage is on), red LED is flashing and yellow LED indicates stabilizing detector. After one minute from turning on, it become FULLY READY TO WORK – green LED lights constantly and red LED flashes once every 5 seconds.

If there's any leakiness in gas installation, detector will notice that. If the gas concentration increases over 15% of lower explosion limit, acoustic signal turns on and red LED begin to flash. Detector is in alarm state. If gas concentration in room reduces under safe value, acoustic signal turns off and red LED flashes twice every 5 seconds (which means that detector was in alarm state). You should turn off and on the detector to return typical standby mode.

If you want to check the detector (gas detecting) you should release lighter fuel from 2-3cm from detector. If detector works properly, acoustic alarm turns on and red LED begins to flash.

Cleaning detector with metal thin objects such as nails, wires, plates IS UNACCEPTABLE

WARNING!

During operation, there may be interference with the detector in the cases:

- excessive concentrations paint fumes, solvents, alcohol, smoke, cosmetics or moisture
- while preparing food or rapidly releasing steam (installation max. over 1 meter from the cooker)
- during startup of gas appliances (cooker or stove ignition)
- when voltage supply drop is too high

These are only temporary situations and do not require intervention. It is a symptom of natural dictated by the limited selectivity of the sensor and its high sensitivity.

KEEP detector away from splashing water or other liquids and the constant presence of combustible or toxic gases with a high concentration (this may damage the sensor)

- Water, other liquids and constant presence of flammable and toxic gas may damage detector. **It may also be a cause of an electric shock!!!**

According to act from 29th of July 2005, MAXI/K-CO which is run down, it cannot be thrown out with another home waste. It must be taken to special waste disposal. That's why it has a special symbol on it.

TECHNICAL PARAMETERS

- Nominal voltage power supply 230V, 50Hz
- Power Consumption - 3 W
- Operating Temperature - - from -10 ° C to + 40 ° C
- Humidity - 30% to 95%
- Type of detector – semiconductor, lasts 10 years
- Detects: methane / propane-butane
- Threshold concentration value – 15% of lower explosion limit of methane or propane-butane
- Alarm signaling - optical-acoustic (red LED, acoustic piezoelectric membrane 85 dB)

GUARANTEE

- The manufacturer gives 36 months guarantee from date of purchase.
- During these 24 months all repairs are free
- The manufacturer obligates to make repairs within 14 working days of receipt of the device
- The guarantee extended by the time of repair.
- Guarantee repairs are made by the manufacturer.
- The warranty does not cover: - mechanical damage or damages as a result of improper installation, - wrong operating conditions and maintenance incompatible with USER MANUAL.