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CGZ-01
GAS DETECTOR

Natural gas used e.g. in a gas stove is a colourless gas with a faint odour. It is lighter than air and therefore it accumulates in the upper parts of rooms. Gas combined with oxygen forms a highly explosive mixture. Propane-butane (LPG) gas is in turn heavier than air and accumulates in the lower parts of rooms, but also when combined with oxygen forms an explosive mixture. That is why, it is so important to mount gas detectors in rooms where gas escapes may occur, to carry out inspections of equipment regularly (cookers, stoves, water heaters, gas boilers, etc.) and to check the flow of ventilating ducts.

FEATURES:
- detection of a dangerous concentration of natural gas and LPG (propane-butane) semiconductor sensor
- power supply voltage 230 V AC
- alarm optical signalling
- alarm sound signalling (85dB)
- sensor failure signalling (auto-diagnostic system)

Before sensor mounting, first read the manual instruction included in the packaging.

GAS DETECTOR: 230 V AC
IP20
Product net weight: 0.169 kg

PET

Made in PRC for Zamel Sp. z o.o.

Declaration of Conformity on the website www.zamel.com

CE

The symbol means selective collecting of electrical and electronic equipment. It is forbidden to put the used equipment together with other waste.

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ZAMEL

GAS DETECTOR
CGZ-01

Optical signalling

Alarm volume: 85 dB

Mains power

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TECHNICAL DATA

- Power supply voltage: 230 V AC
- Sensor type: semiconductor
- Power consumption during stand-by mode: about 1.5 W
- Sound level: 85 dB
- Optical signalling of alarm, operation and failure
- Alarm level of gas detection ~10 % LEL
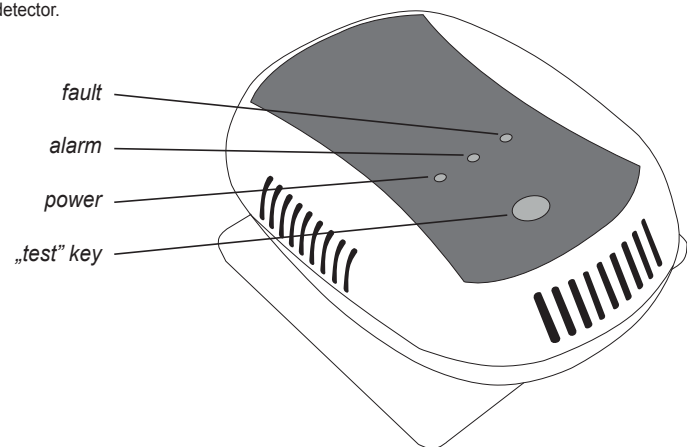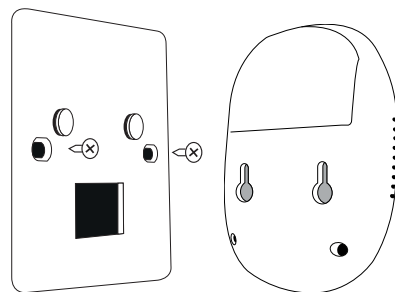- Protection class II
- IP protection degree IP20
- Operating temperature range : from 0°C to 40°C
- Humidity operating range: from 10 % to 95 % RH
- Dimensions [mm]: 120 x 85 x 32

MOUNTING

- Detectors should be mounted mainly in rooms where gas escape is possible to occur, it means in places with stoves, gas stoves, gas valves etc. The detector should be installed at a distance not less than 2 meters from the gas source in order to avoid false alarms
- In case of natural gas detection, the sensor should be mounted at a height of 1 m or less from the ceiling due to the fact that this type of gas is lighter than air and it accumulates in the upper parts of rooms
- In case of of propane-butane gas detection (LPG), the sensor should be placed at a height of not more than 1 m from the ground because this gas is heavier than air and it accumulates in the lower parts of rooms
- Detectors should not be installed both in the so called blind spaces (e.g. a niche covered by furniture or curtains) and in places where their operation will be affected by the direct supply of fresh air (e.g. near doors, windows, ventilation grilles, fans). Also, these devices should not be placed in areas exposed to dust, dirt, aerosols and household chemicals that can permanently damage the detector.

fault

alarm

power

„test" key

FUNCTIONS

First activation
After power has been supplied, the device activates a short sound signal, switches on the green LED and the yellow LED starts flashing.The above means the device will warm up for approximately 1 minute. After this time is over, the yellow LED will stop flashing and the device will switch to the operation mode. In cases the device has been inactive for three months the sensor warm-up process can take much longer (even up to several minutes).

Test procedure
After pressing the TEST button, the device will perform the test procedure by checking the sensor's efficiency. A sound signal is audible and the red LED switches on. In case the test is successful, the device returns to the operation mode signalled by switching on the green LED. Device testing is recommended at least once a month.

Alarm
If a sensor detects a dangerous gas level, it automatically activates a sound alarm and a red LED starts flashing. In case an alarm occurs, it is required to ventilate immediately the particular room and to leave it at once. Do not switch on any other electrical equipment as it can cause the risk of explosion. It is also important to notify the relevant services to check the cause of gas presence in the air. Device failure signalling. The device is equipped with an auto-diagnostic system, which in case of a sensor failure detection activates the sound alarm and the yellow LED flashing. The device failure requires to contact the service or to replace the device due to the end of device life.

Maintenance and usage remarks
Clean the device regularly, keep clean the sensor's air inlet - mount the device in places meeting the requirements regarding temperature and humidity, do not cover the device with paint while painting the room, do not spray the cleaners directly on the device, do not allow to flood the sensor, mount the sensor according to the requirements (point 1 of this manual instruction), it is absolutely required to replace the sensor in case a failure is detected.

In case of an alarm it is required to:

- Ventilate the particular room by opening the windows and doors, do not switch on any electrical equipment in this room (risk of explosion),
- immediately leave the room,
- although the alarm is switched off, it is important to define the cause of its occurrence by controlling the condition and the flow of ventilating ducts, the condition of the heating units and eventually notify the relevant services (e.g. fire-brigade, gas-works),
- in case any of the household members has a poisoning symptom (headaches and dizziness, nausea) it is required to immediately notify the ambulance.

Maintenance and usage remarks

- Clean the device regularly, keep clean the sensor's air inlet - mount the device in places meeting the requirements regarding temperature and humidity,
- do not cover the device with paint while painting the room,
- do not spray the cleaners directly on the device,
- do not allow to flood the sensor,
- mount the sensor according to the requirements (point 1 of this manual instruction),
- it is absolutely required to replace the sensor in case a failure is detected.

It is important to take into account that gas sensors perfectly raise the probability of detecting gas escape, but they do not provide 100% certainty of gas detection due to a possibility of a device failure, power failure and the impact of external factors on the sensor. Therefore, it is required to systematically test the sensor's efficiency (in accordance with this manual instruction), gas equipment and installation, and the flow of ventilating ducts to minimize the risk of explosion.

Before mounting the sensor, read this manual instruction first.

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