

# Gas alarm and ultrasonic rat repellent- mosquito repellent device instruction

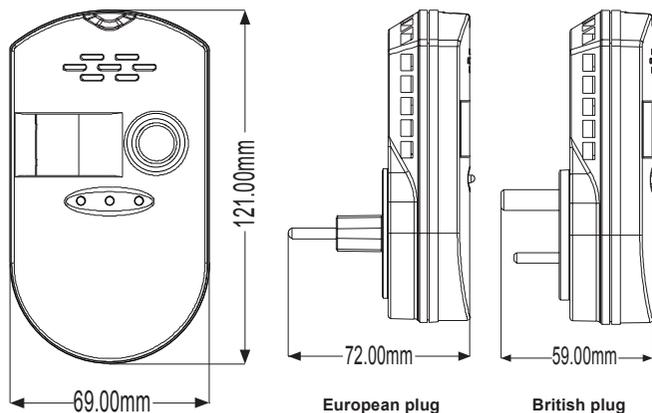


European plug



British plug

## Product size



## Summary

This is a digital learning combustible gas alarm (it is a combustible gas concentration according to customer requirements for automatic learning to save data, so that the concentration of combustible gas deviation is smaller) and 20KHz-45KHz ultrasonic rat repellent, mosquito repellent multi-functional products. The international advanced gas sensing technology is adopted, and the cost-effective microprocessor is selected as the control core (the storage device of i2c-bus is adopted, and the two-wire protocol is followed, due to its features such as convenient interface, small size and no loss of data power). The product is used to continuously detect the concentration of indoor gas leakage. When the concentration of leakage reaches the set value, the detector will send out a sound-light alarm. When the concentration of indoor gas is lower than the set value, the detector will automatically return to the normal working state.

The system also incorporates a 20KHz-45KHz ultrasonic scanning generator. It can drive away mice, mosquitoes and animals sensitive to this batch. Can be widely used in the family kitchen, office, warehouse and so on as the combustible gas leakage alarm and drive away the rat harm effective drive away sharps. Achieved the effect that a machine is multi-purpose truly, it is the good helper of house home, office, storehouse.

Wide operating voltage of the product. Can adapt to 100V to 240V power network. Digital tube is used to display the concentration of combustible gas leakage, with the function of warning and warning of low-concentration combustible gas, which can avoid the occurrence of poisoning, explosion, fire and other personal casualties and property loss accidents caused by combustible gas leakage. Reasonable structure design, PC anti - ultraviolet engineering plastic shell, safe and reliable!

## Specifications

- Power source: AC100V-240V/50-60Hz
- Rated load: <2W
- Frequency of ultrasonic generator: 20KHz-45KHz
- Detect gas: LPG ,natural gas, town gas
- Alarm concentration: 2%LEL- 8%LEL
- Alarm volume: ≥85dB(3m)
- Working environment: -20°C~+40°C
- Working humidity: <85%RH
- Drive rat, midge area: 20 square metre

## Where should install the alarm

1. For natural gas and gas alarms:
  - alarm should be installed at the location where gas leakage is most likely to occur. These places could be kitchens because they have gas stoves or other gas appliances.
  - the alarm should be installed above the level where gas leakage is possible, near the ceiling (generally 0.3 meters from the ceiling) and where the air flow is not blocked by furniture or indoor furnishings.
2. For LPG alarm:
  - alarms should be installed in areas with frequently used appliances and where gas leaks are most likely to occur. In a family home, these rooms may be the kitchen, because there are gas stoves or other gas appliances, and can also be used in offices, warehouses and other areas to ward off rodents.
  - the alarm should be installed in the lowest possible position (generally 0.1 meters away from the ground) and the position where the air environment is not blocked by furniture or indoor furnishings.
  - note: when the product is used for the first time, it needs to be powered on for 8 hours before it can enter the normal working state.

## Where should not install the alarm

- enclosed space (e.g. in the kitchen or behind the curtain)
- directly above the pool
- close to doors and Windows
- approach the ventilator
- location of the vent
- temperature under - 20 °C and 40 °C above areas
- dirty and dusty places where sensors may be blocked
- wet places with rain

## Instructions for use:

The product is used for the first time. Due to the environmental humidity warning product in a long time did not enable the reason, try to make the product power for a long time. Let the product preheat as far as possible, use the heat of the product itself to reduce the humidity inside the product, so that the product into a good working state. At this time, the digital tube display is 0, indicating that the product has entered the state of gas detection; The ultrasonic rat and mosquito repellent system has been turned on, and the system has entered normal operation.

## Detection of combustible gas:

To check that the combustible gas detection system is in working order, the user can take a little cotton and put a small amount of alcohol (concentration above 50%) near the gas sensor window. The nixie tube will change from 0 to 9. When the nixie tube shows 3 above, the system will appear an early warning. Above 8 when the system immediately alarm!

### Attention:

*Do not inject alcohol into the gas sensor window. You just need to get close to the sensor window to see if there is any digital change in the nixie tube. Too much*

*alcohol can affect the sensitivity of sensors to detect combustible gases.*

## Testing of ultrasonic rat and mosquito repellent system:

Users can listen close. Ultrasonic horn will have a very light scanning conversion sound. However, the frequency above 20KHz belongs to the frequency band which is insensitive to human beings. So all you can hear is the rotation at 20KHz. The scanning system has started scanning. It's working fine.

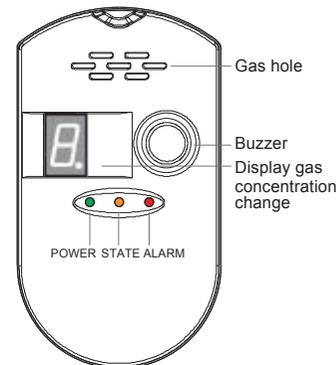
## Operation

When the power is turned on, the power indicator (green) will always be on, and the alarm sound will be beeped (the alarm indicator will blink for 2 times), and the digital tube will flash "-" for about 5 minutes

to display the leakage concentration, and the product will enter the alarm waiting state;

Use pump to supply the alcohol volatile gas through the tube to the GS alarm, and the casing end is aligned with the gas-sensitive probe of the alarm;

- when the nixie tube displays the concentration of 0, 1 and 2, the status indicator is off;
- when the concentration of the digital tube is 3 or higher, the status indicator is yellow and the alarm indicator flashes. When 3, 4, and 5 are displayed, it alarms with the beep sound slowly and when says 6,7,8,9, it alarms with the fast beep sound ;
- when the concentration displayed on the nixie tube is A, the product will give an alarm, the concentration



displayed on the nixie tube will flash, the status indicator will be red, and the alarm indicator will always be red. When the concentration is lower than the set alarm value, the alarm will automatically resume normal operation.

## What to do in the event of an alarm sounding or the smell of gas even without an alarm

If properly maintained, this alarm will alert you to the potential concentration of gas leaks in your home. In order to maintain your alarm and make it work properly, it is recommended that you do the following maintenance:

- test the alarm once a week (for example, you can make the lighter produce gas by gently pressing the inlet hole of the alarm);
  - gently remove dust from the alarm with a vacuum cleaner with a soft brush every other month;
  - do not use the cleaning fluid, wipe it gently with a damp cloth;
  - do not paint the alarm;
  - do not spray aerosol on or near the alarm;
- Before painting or wallpapering walls and using odorous substances, place the detectors in a safe place and cover them with plastic bags. Remember to remove the alarms from the plastic bags and put them back in.

## Warning!

- Please confirm with professional installation.
- Please cut off power supply before installation and removal operations.
- Make sure that you have cut off the power for safety purposes.
- Improper operation caused losses, the manufacturer does not undertake any responsibility.

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