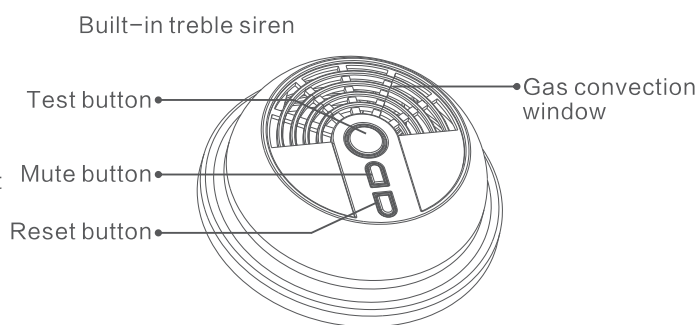


MD-2003 Wired Gas Leak Alarm User Manual

● Product Brief

This product uses the most advanced low-current imported gas sensor, which can detect the leaked gas in time, and adopts wired technology to transmit and accurately reflect the alarm situation in time. When the induced gas reaches the alarm concentration, the alarm uses sound and light to alert the user, and outputs an alarm signal, and stops the alarm when the induced gas in the environment is lower than the alarm concentration. This product has an elegant streamlined design, convenient installation method, and can also be used as a part of home decoration.



● Specifications

Model number	MD-2003R	Alarm mode	Sound and light alarm, output wired signal
Induction gas	Natural gas (CH ₄)	Relay output	N.O., N.C.
Working voltage	DC 12V	Product size	φ 115*H46mm
Working current	≤200mA	Working environment	Temperature -10°C ~ +50°C, Humidity ≤95%RH, no condensation
Speaker volume	≥70dB (1 meter directly in front)		
Alarm concentration	8%LEL(±3%)		

● Indicator light description

Detector status	status description
Green indicator light flashes	power on to warm up
Green indicator light is always on	normal operation
Red indicator light flashes quickly	pre-alarm status
The red indicator light flashes, and the buzzer "didi" sounds	alarm state
The yellow indicator light is always on and the buzzer beeps for a long time	the sensor is faulty

● Installation

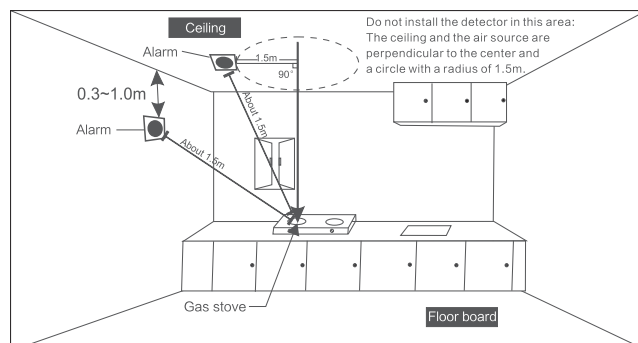
1. First of all, please make sure that the gas to be detected is heavier or lighter than air:

Gases heavier than air include: liquefied petroleum gas;

Gases that are lighter than air include: carbon monoxide, natural gas, artificial gas, biogas, etc.

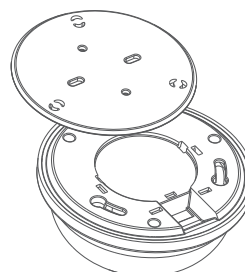
2. Installed at 0.3 to 1.0 meters below the ceiling and within 1.5 meters of the air source radius.

3. Do not install the alarm in places with heavy oily smoke and steam, or in places where there is heavy moisture on the side of exhaust fans, doors and windows, and bathrooms.



4. Installation instructions

- Mark the drilling points and drill holes on the wall
- Insert two nails and fix the base to the wall with two screws
- Fix the detector on the buckle of the base





● Product use

This product can be used as an alarm alone, or it can be connected to the alarm host.

1. Use alone

- 1.1 It does not need to be connected to the Internet when used alone, and the detector will sound an alarm when an alarm occurs.
- 1.2 Install the product in a suitable location.
- 1.3 The detector needs to be warmed up after it is powered on. The green light flashes when it is powered on, indicating that the sensor is warming up. When the green light is always on, it indicates that it has entered the normal working state.

2. Internet use

- 2.1 This machine can be used through wired networking.
 - 2.2 Using DC12V power supply, the green light flashes after power-on, it means the sensor is warming up, when the green light is on, it means it enters the normal working state.
3. After the alarm detector detects the flammable gas leakage, the red alarm indicator flashes and the buzzer emits a "di" sound, and the relay outputs an alarm signal. When the alarm condition is eliminated, the alarm automatically restores the monitoring state.
 4. In the alarm state, press the silence button once to enter the silence mode.
 5. When the equipment reports equipment failure, the power supply should be cut off and the after-sales service should be contacted immediately.

6. Connection method:

Follow the company's five-color cable (red, black, blue, green, and yellow) for instructions:

from right to left

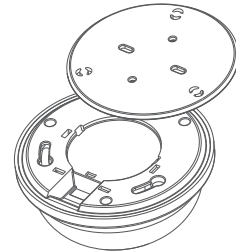
Red wire: +12V

Black wire: GND

Blue line: COM

Green line: NO

Yellow line: NC



● Button description

Test button: Press the test button once to release it, the red light of the detector flashes, the buzzer emits a "didi" sound, and the relay outputs an alarm signal.

Reset button: Press the reset button for about 3 seconds, the detector will beep once, all indicator lights will flash once, and the detector will reset.

Silence button: When alarming, short press the silence button to enter the silence mode. At this time, the red indicator light flashes and the buzzer stops ringing.

The initial silence period is 5 minutes. If the alarm is not released, the silence period for the second and third presses of the silence key is 15 minutes and 30 minutes respectively. Pressing the silence key for the fourth time and above will invalidate the silence.

● Product testing

Manual test and gas test can be used:

1. Press the test button once, the red light flashes, the buzzer emits a "didi" sound, which means manual test alarm, and the relay outputs an alarm signal.
2. After installing the gas leak alarm, you can use a lighter to put some gas around the gas convection window at a distance of about 5cm from the gas convection window to check the detector alarm or use it as a test for system joint adjustment. Do not use too much gas for frequent testing, as this will reduce the sensitivity of the gas sensor. The decrease of the combustible gas concentration will stop the alarm and restore the monitoring state.

● Police handling

When the concentration of combustible gas in the ambient air reaches or exceeds the concentration set by the alarm, the detector starts to alarm continuously. At this time, you should:

1. Immediately close the pipeline valve;
2. Open the windows immediately to circulate indoor air;
3. Extinguish all fire sources and block all items that can produce sparks;
4. Avoid switching power supply;
5. Check the cause of gas leakage, and notify relevant departments and related professionals in time.