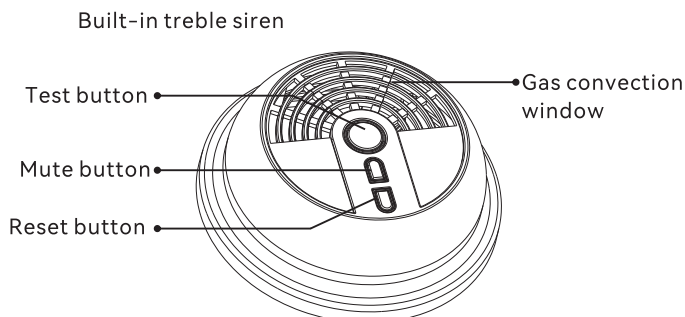# WIRELESS GAS ALARM

MD-2003R
Instructions for use of wireless gas leak alarm

● Product Brief

This product uses the most advanced low-current imported gas sensor, which can detect the leaked gas in time, and adopts professional wireless technology transmission to accurately reflect the alarm situation. Elegant streamline design, convenient installation method, can also be used as a part of home decoration.

Built-in treble siren

Test button

Mute button

Reset button

Gas convection window

● Specifications

Model number	MD-2003R	Alarm concentration	8%LEL(±3%)
Induction gas	Natural gas (CH$_4$)	Alarm mode	Sound and light alarm, wireless signal output
Working voltage	DC 12V		
Working current	≤200mA	Relay output	N.O., N.C.
Modulation method	ASK	Product size	φ115*H46mm
Transmitting frequency	433/868MHz (optional)	Working environment	Temperature -10℃ ~ +50℃, Humidity ≤95%RH, no condensation
Speaker volume	≥70dB (1 meter directly in front)		

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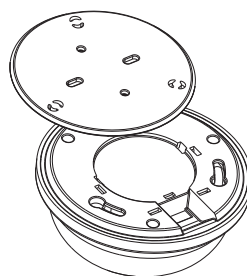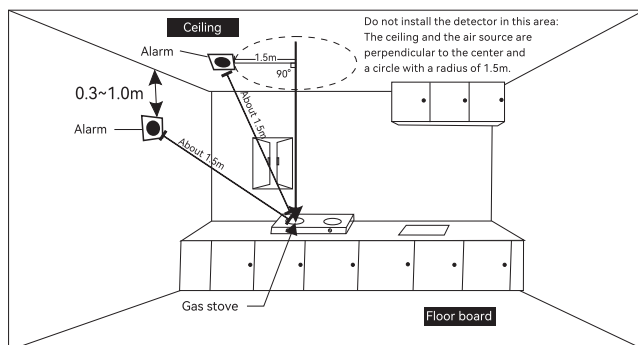
3. Do not install the alarm in places with heavy oily smoke and steam, or in places where there is heavy moisture on the side of exhaust fans, doors and windows, and bathrooms.

4. Installation instructions

A. Mark the drilling points and drill holes on the wall

B. Insert two nails and fix the base to the wall with two screws

C. Fix the detector on the buckle of the base

Ceiling

Alarm

0.3~1.0m

Alarm

Gas stove

Floor board

Do not install the detector in this area: The ceiling and the air source are perpendicular to the center and a circle with a radius of 1.5m.

● Product use

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

1. Use alone

a. When used alone, there is no need to add a network, and the detector will sound an alarm when an alarm occurs;

b. Install the product in a suitable location;

c. After the detector is powered on, it needs to be warmed up. The green light flashes after power 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. Screening use

a. This machine can be used in conjunction with the alarm host through wireless screening;

b. Using DC12V power supply, the green light flashes after power-on, it means the sensor is warming up, when the green light is always on, it means it enters the normal working state.

c. Pair code with the host: ①Set the host in the detector adding state, press any button or trigger the detector within 3m of the host to make the detector send wireless signals, if the host responds accordingly, it means the code is matched success.

②You can also code with the host by entering the address code: set the host in the manual code matching mode, and then enter the 9-digit address code label at the bottom of the detector. This code matching method has a higher accuracy rate.

3. After the alarm detector detects the flammable gas leak, the red alarm indicator flashes, the buzzer emits a "di" sound, and the wireless signal is output. When the alarm is removed, the alarm automatically resumes the monitoring state.

4. In the alarm state, press the mute button once to enter the mute 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

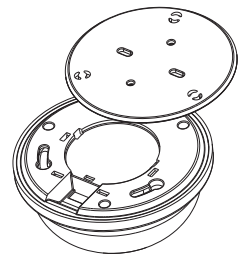Follow the company's five-color cable (red, black, blue, green, and yellow) for instructions:

Red line: +12V

Black wire: GND

Blue: COM

Green: NO

Yellow: 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 an alarm signal is issued at the same time.

Reset button: Press the reset button for about 3 seconds, the detector will beep once, all the indicators 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, and the buzzer emits a "didi" sound, indicating that the manual test alarms, and the wireless product can also trigger the code matching 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.n.