Model: MIR-GA100

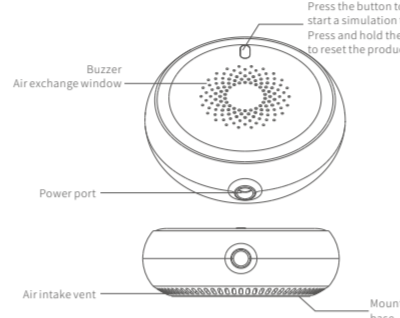**Wireless Gas Detector**
**Independent Combustible Gas Detector User Manual**
(Measurement Range: 0% to 100% LEL)

## Packing List

After you unpack the product package, check whether the product is intact and that all accessories are included and complete. The following figure show the items that should be contained in the product package.



## Product Description



Status indicator
Buzzer
An exchange window
Power port
An inhale vent
Mounting base

Press the button to start a simulation test. Press and hold the button to reset the product.

### Indicator and Buzzer States

| The indicator blinks red | The buzzer beeps |
| The indicator alternates green and yellow | The buzzer does not make a sound |
| The indicator is steady green | The buzzer does not make a sound |
| The indicator blinks yellow | The buzzer does not make a sound |
| The indicator flashes | The buzzer does not make a sound |
| The indicator rapidly blinks green | The buzzer does not make a sound |

## Entering the Network Configuration Mode

1. Power on the product.
2. Press and hold the button for 5s to restore the product to factory settings.
The status indicator will rapidly blink green and the product will enter the network configuration mode automatically once the factory settings have been restored.

Connect the product to the power supply.

Press and hold the button for 5s.
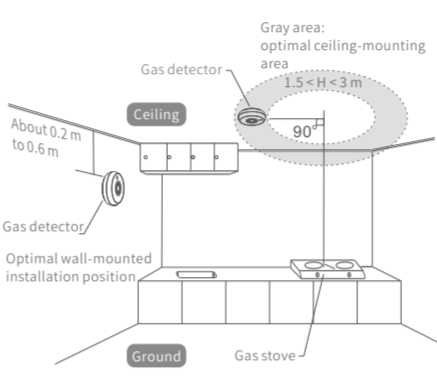


## Installation Instructions

### 1. Precautions

(1) Install the product indoors where devices use combustible gas (methane).
(2) Do not install the product outdoors.
(3) Ensure that the temperature of the installation environment is within the range of -10°C to +55°C.
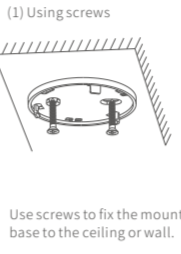
## 2. Installation positions

Ceiling mount: Install the product in the annular zone about 1.5 m to 3 m above the gas source.
Wall mount: Install the product on a wall, about 0.2 m to 0.4 m below the ceiling and 1.5 m away from the gas source.



## 3. Installation methods

(1) Using screws

Use screws to fix the mounting base to the ceiling or wall.

Rotate the product clockwise into the mounting base.

(2) Using a 3M sticker

Affix the 3M sticker to the rear of the mounting base.

Affix the product to the target position.



## Using this Product

### 1. Preheating state
The product enters the preheating state after being powered on. During the preheating period, the status indicator is flashing yellow lights. After preheating is completed (no more than 3 minutes), the status indicator will become steady green.

### 2. Working state
When the product is working properly, the status indicator will be steady green with no alarm sound.

### 3. Alarm state
If the product is working properly and the gas concentration is higher than the preset alarm threshold, the status indicator is flashing and the buzzer will generate an audible alarm.

### 4. Faulty state
If the product is faulty, yellow indicator is flashing and the buzzer will generate a long blast of sound.

### 5. Simulation test
When the product is working, press the mute/self-diagnostic button to enter the simulation test mode. After entering the simulation test mode, the product will send a wireless alarm signal. After the test is completed, the product will send a wireless alarm clearance signal.

## Routine Maintenance and Protection

To ensure that the product works properly, maintain and protect the product as follows:

1. Correctly install, operate, and maintain the product in accordance with the user manual.
2. Perform a self-diagnostic test on the product every month. When the product is working, press the mute/self-diagnostic button and ensure that the product can generate an audible and visual alarm.
3. Once every three months, use a slightly damp towel to clean the product cover and remove dust and oil stains from the air intake vent of the product to ensure smooth airflow and a normal alarm sound. Do not use a wet towel or chemical solvents, such as alcohol or acetone to clean the product.
4. Calibrate the product annually.

Only qualified institutions with standard gas and calibration tools are authorized to calibrate the product.

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## Handling Gas Leakage

When the combustible gas concentration in the air reaches or exceeds the preset alarm threshold, the product will enter the alarm state. Handle the problem as follows:
1. Close the gas pipeline valve immediately.
2. Open doors and windows for ventilation.
3. Extinguish all sources of fire such as cigarette lighters, matches, and gas burners, and do not use items that may generate fire or any kind of electrical spark, such as electronic ignition devices for water heaters or gas burners.
4. Do not turn any home appliances on or off.
5. Check the causes of the gas leakage and notify relevant departments and professional personnel of handling the problem.

### Troubleshooting

| Symptom | Possible Causes | Solution |
|---|---|---|
| After the product is powered on, yellow indicator is flashing, indicating that the product is still in preheating state. | 1. The product is not powered on for a long time. 2. There is combustible gas in the environment during the preheating period. | 1. Power on the product for 24 hours. 2. Eliminate combustible gas, and power on the product to preheat it. |
| yellow indicator flashes twice every one second, and the buzzer generates a long blast of sound. | The sensor is faulty. | Contact the vendor for repair. |

## Other Precautions

1. The product can only be used for pipeline natural gas (methane) and cannot be used for bottled liquefied gas (LPG).
2. Do not change the internal structure of the product.
3. Do not directly use high-concentration combustible gas, for example, butane lighter gas or pure natural gas on the product. The sensitivity of the product's detector will be reduced, and the product may even become non-functional.
4. Do not use a large amount of hair spray, pesticides, paint, adhesives, or thinners near the product to avoid false alarms and maintain the product's lifespan.
5. Typically, the product's built-in sensor can be used for five years. Maintain the sensor or replace the product after having using the product for five years.
6. Periodically check whether the product is working properly. If the product is faulty, contact the vendor and describe the fault symptoms to rectify the fault. Do not disassemble the product yourself. After-sales service engineers of the vendor can provide on-site guidance. If you send the product to the vendor for repair, ensure gas use safety during the repair period.
7. If you use a 3M sticker to affix the product to a painted surface, peeling of the paint may cause the product to fall down. If this occurs, you are liable for any problems incurred therefrom.

## Technical Parameters

| Wireless Technology | ZigBee |
|---|---|
| Transmission Frequency | 2.4 GHz |
| Working Voltage | AC220V |
| Standby Current | < 100 mA |
| Operating Environment | -10°C to +55°C +90% RH |
| Alarm LEL | 8% LEL Methane (Natural gas) |
| Concentration Error | ± 3% LEL |
| Alarm Method | Audible and visual alarm, and wireless connection alarm |
| Alarm Sound Pressure | > 70 dB (1 m in front of the gas detector) |
| Installation Method | Wall-mounting or ceiling-mounting |
| Detected Gas | Methane (Natural gas) |
| Dimensions | Φ85 mm x 29.6 mm |

## Toxic or Hazardous Substances or Elements of this Product

| Component Name | Tool or Hazardous Substances or Elements | | | | | |
|---|---|---|---|---|---|---|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Hexavalent Chromium (Cr(VI)) | Polybrominated biphenyls (PBBs) | Polybrominated diphenyl ethers (PBDEs) |
| ... | ○ | ○ | ○ | ○ | ○ | ○ |
| ... | × | ○ | ○ | ○ | ○ | ○ |
| ... | ○ | ○ | ○ | ○ | ○ | ○ |

## Warranty Certificate

Warranty policy:
1. If the product has quality problems within 15 days of the payment date, you can apply to replace the product with one of the same model.
2. If the product has quality problems within 12 months of the payment date, you can apply to have the product repaired.

What is not covered under this warranty:
1. The product owner has no warranty certificate or the warranty service has expired.
2. Damage caused by improper use, maintenance, or storage
3. Damage caused by disassembly and repair without Tuya's authorization
4. Damage caused by force majeure
5. Normal discoloration and wear after the product has been used

## User Form

User information (Specify real information. Tuya promises to use the information only for after-sales services.)

Name _____
Phone number _____
Email _____
Zip code _____
Address _____
Product information
Name _____ Model _____
Color _____ Product SN _____
Service ○ Return ○ Replace ○ Repair
Fault symptoms _____
Handling date _____
Maintenance personnel signature _____

## Vendor Form

User information (Specify real information. Tuya promises to use the information only for after-sales services.)

Name _____
Phone number _____
Email _____
Zip code _____
Address _____
Product information
Name _____ Model _____
Color _____ Product SN _____
Service ○ Return ○ Replace ○ Repair
Fault symptoms _____
Handling date _____
Maintenance personnel signature _____