


Model: MIR-GA100

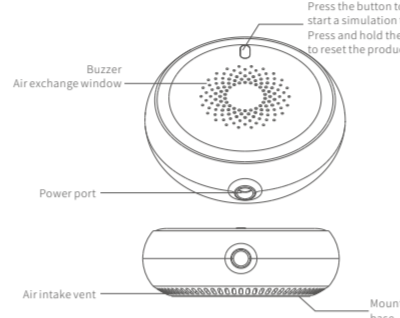


Wireless Gas Detector
Independent Combustible Gas
Detector User Manual
(Measurement Range: 0% to 100% LEL)

Packing List

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

Product Description



Indicator and Buzzer States

The indicator blinks red.	The buzzer beeps.	The product generates an internal alarm.
The indicator blinks yellow.	The buzzer does not sound.	The product is being preheated.
The indicator is steady green.	The buzzer does not sound.	The product is working properly.
The indicator blinks yellow.	The buzzer does not sound.	The product has an internal fault.
The indicator flashes.	The buzzer does not sound.	The product is self-diagnostic state.
The indicator is steady green.	The buzzer does not make a sound.	The product is in network configuration mode.

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 apply 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.

A network access status: Press the button for 3s to return to a network. After preheat, the red indicator is steady on, after 3 seconds release the button, the green indicator flashes rapidly to enter distribution of the network. If the network access is successful, the green LED remains on for 5 seconds, the green indicator is always on, and the alarm enters the normal monitoring state.

If the product fails to enter the network configuration mode within 60s, the status indicator will be steady yellow for 5s and then off.

Installation Instructions

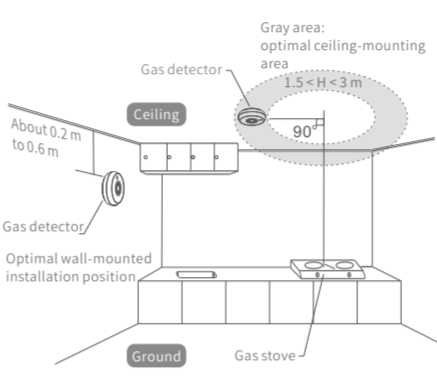
1. Precautions

- Install the product indoors where devices use combustible gas (methane).
- Do not install the product outdoors.
- Ensure that the temperature of the installation environment is within the range of -10°C to +55°C.
- Do not install the product in places where the product will be affected by heat, steam, or smoke residual generated by gas appliances (for example, above a gas stove).
- Ensure that there are no obstacles between the product and gas devices, or the product may fail to detect gas leakage.
- Do not install the product in places with a large airflow, such as air intake vents, ventilators, windows, and doors, or the product may fail to detect gas leakage.
- Ensure that the product is properly connected to a power socket and that the power socket has power.
- You are advised to use screws to install the product. If you use a 3M sticker to install the product, any product damage or safety accidents incurred therefrom will be your responsibility. However, if you choose to use a 3M sticker, affix the product to a smooth, even, dry, and clean surface.
- Regularly check whether the product is attached to the surface securely to prevent it from falling down.

2. Installation positions

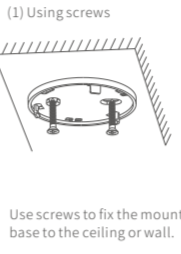
Ceiling mount: Install the product in the annular zone about 1.5 m to 3 m above the gas source.

Wall mount: Install the product on a wall, about 0.2 m to 0.6 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.

(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, Red 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:

- Correctly install, operate, and maintain the product in accordance with the user manual.
- 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.
- 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.
- Calibrate the product annually.

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

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:

- Close the gas pipeline valve immediately.
- Open doors and windows for ventilation.
- 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.
- Do not turn any home appliances on or off.
- Check the causes of the gas leakage and notify relevant departments and professional personnel of handling the problem.

Other Precautions

- The product can only be used for pipeline natural gas (methane) and cannot be used for bottled liquefied gas (LPG).
- Do not change the internal structure of the product.
- 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.
- 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.
- 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.
- 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.
- 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 ~ 95% 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	70-120 dB (1 m in front of the gas detector)
Installation Method	Wall-mounting or ceiling-mounting
Detected Gas	Methane (Natural gas)
Dimensions	85 mm x 29.6 mm

Toxic or Hazardous Substances or Elements of this Product

Component Name	Toxic or Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hazardous Chromium (Cr(VI))	Polychlorinated Biphenyls (PCBs)	Polycyclic Aromatic Hydrocarbons (PAHs)
LED	0	0	0	0	0	0
PCB	X	0	0	0	0	0
Other and other components	X	0	0	0	0	0

This table complies with SJ/T 11364.
0 indicates that the toxic or hazardous substance amount contained in all homogeneous materials of a component does not exceed that stipulated in GB/T 26572.
X indicates that the toxic or hazardous substance amount contained in at least one of the homogeneous materials of a component exceeds that stipulated in GB/T 26572.

Warranty Certificate

Warranty policy:

- 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.
- 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:

- The product owner has no warranty certificate or the warranty service has expired.
- Damage caused by improper use, maintenance, or storage.
- Damage caused by disassembly and repair without Tuya's authorization.
- Damage caused by force majeure.
- 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 _____

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

The device has been evaluated to meet general RF exposure requirements.

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or in conjunction with any other antenna or transmitter.