



QUICK START GUIDE

GS100 Series



Cloud App



Quick Start Guide

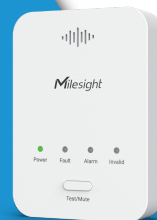


All software & files can be downloaded from
<https://www.milesight-iot.com/documents/download/>

Better Inside, More in Sight

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RESIDENTIAL GAS DETECTOR
FEATURING **LoRaWAN®**



 DANGER

If you hear the gas leak alarm or smell the gas even without an alarm, please keep calm and carry out the following actions, not necessarily in the order given:

- Extinguish all naked flames, including all smoking material;
- Check and ensure gas appliances are off;
- Open doors and windows to improve ventilation;
- Do NOT use a phone, light a match, or turn on or off any electrical equipment indoors;
- EVACUATE IMMEDIATELY and NOTIFY the gas supplier and/or 24h-service gas emergency to test and make safe, any necessary repair carried out;
- Do NOT re-enter the place until told to do so by authorities.

 WARNING

- Please read this guide carefully before operation and retain it for future reference.
- This detector is not guaranteed to prevent personal injuries or property damage associated with a gas leak. Please ensure that your gas appliances and piping systems are properly installed, used and maintained to reduce the possibility of a gas leak.
- This installation should strictly comply with the electrical safety regulations of the local region.
- The output installation with other appliances and gas valves should be conducted by a qualified service person. Do not overload the output maximum capacity so as to avoid damage to the detector.
- Do not modify, disassemble, strike or crush the device, this will cause the fault alarms.
- Do not expose the detector to corrosive gas, silicon vapor or high levels of volatile organic compounds.
- Keep the device away from the water to prevent damage to the detector and electric shock.
- Do not paint or cover the device, which may block the air inlets and interfere with the detector work.
- Keep the device out of childrens' reach.
- Do not place your ear directly against or in close proximity to the device when it is alarming.

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1. Packing List

Please check the package contents to verify that you have received the items below.



1 × Residential Gas Detector



1 × Power Adapter



2 × Wall Mounting Kits



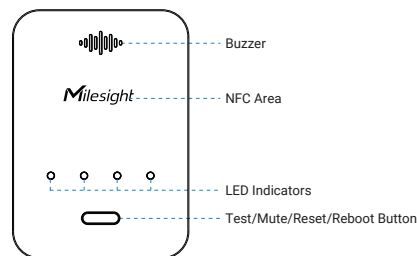
1 × Quick Start Guide

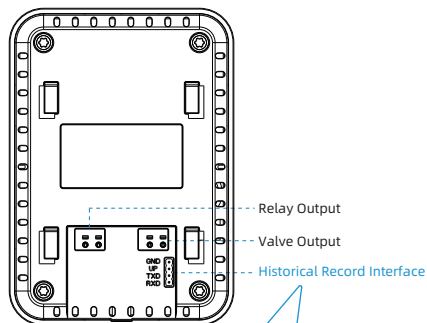
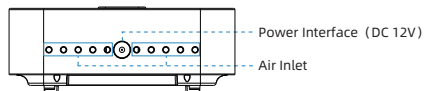


1 × Warranty Card

⚠ If any of the above items is missing or damaged, please contact your sales representative.

2. Hardware Introduction



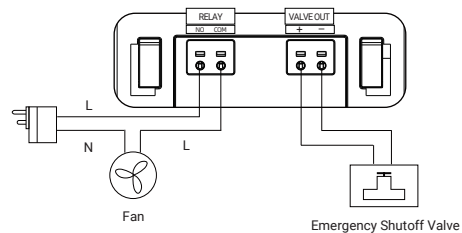


The historical record interface is only for a professional use. Users can use Milesight ToolBox App to read the historical records.

3. Wirings

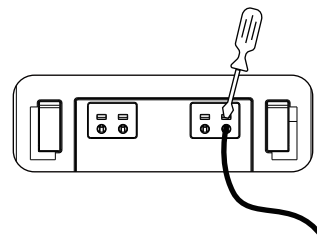
Wiring Diagram

The relay output can connect the device up to 250 VAC/10A, and the solenoid valve output is a 12V/100ms pulse output.



Wiring Step

Insert a flathead screwdriver into the square holes and insert the wire into the circle holes, then release the screwdriver and ensure the cable is locked.



Note: power off all devices when wiring, and do not touch the bare wires after the device is powered on.

4. LED and Buzzer Patterns

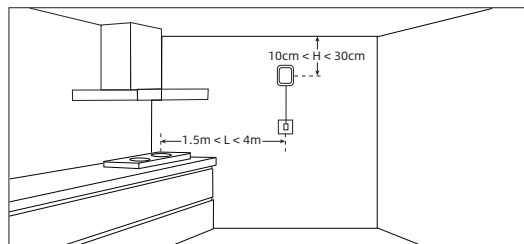
Status & Function	LED	Buzzer
Warm-up Time (About 180s)	All Blinks	Beeping Twice when the Warm-up Completes
Work Properly	Steady Power Light On, While Other Lights Off	/
Abnormal Working/Collection /Output	Steady Fault Light On, While Others Off	Beep Once Every 0.5s
Threshold Alarm: 8% LEL	Steady Alarm Light On, While Others Off	Keep Beeping
End of Working Life	Invalid Light Blinks, While Others Off	Beep Once Every 0.5s
Test: Press the Button (≤ 3 s) when Device Is Working Properly	All Lights Blink until the Test Complete	Beep 1s
Mute: Press the Button (≤ 3 s) when Device Is in Alarm Status	Steady Alarm Light On, While Others Off	Stop Beeping for 1 Min
Reboot: Hold On the Button for 3s to 10s	All Lights Blink Slowly	/
Reset to Factory Default: Hold On the Button for More Than 10s	All Lights Blink Quickly	/

5. Installation Instruction

Recommended Installation Locations

The residential gas detector is designed to be installed in every room where gas leak may occur, such as kitchen. The installation location should meet these requirements:

- within the range of the LoRaWAN® gateway;
- close to the ceiling and be higher than any door or window;
- keep away from the gas supply between 1.5m to 4m;
- keep away from the ceiling between 10cm to 30cm.



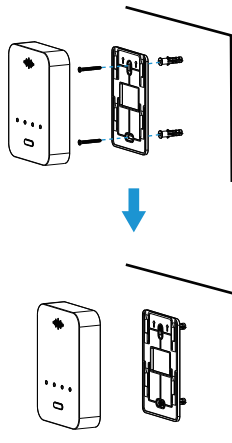
Locations to Avoid

- Behind metal objects and obstacles;
- The place with lots of electromagnetic interferences;
- The place where strong vibration may happen or easy to be subjected to physical shock;
- On the top of cookware or sink or way of smoke;
- Enclose space or the place where curtains, furniture or other objects block the flow of air to the detector;
- Dusty or dirty environments may block the air inlets;
- Damp or very humid location which except operating humidity (0 to 95%), such as bathroom;
- Next to a door or window or any air ventilation openings like ventilation fan, vents, etc.
- Do not install the device outdoors;

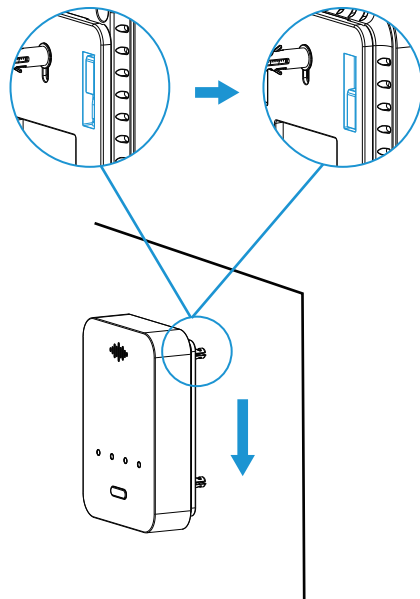
- In an area except for the operating temperature (-10°C to 55°C) or large temperature difference;
- The places spraying alcohol, perfume, fresheners, hair spray, gasoline, paint and other aerosols.

Installation Steps

1. Take off the mounting bracket on the back of the device, drill 2 holes on the wall according to the wall mounting bracket, and then fix the wall plugs into the wall.
2. Fix the mounting bracket to the wall plugs with screws, and note the bracket should not be installed upside down.



3. Hang the device to the bracket.



6. Configuration Guide

1. Connect the outputs to the solenoid valve, fan or other devices.
2. Power on the detector, and wait for about 180s for the warm-up process. When the warm-up finishes, the buzzer will beep twice and all indicators will stop blinking except for the Power indicator.
3. Press the Test button to check if the LED indicators and buzzer work properly and if the outputs are able to control the gas value and fan.
4. Download the "Milesight ToolBox" App on an NFC-supported smartphone.

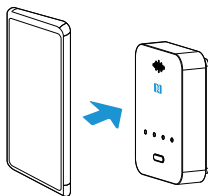


Android



iOS

5. Open the "Milesight ToolBox" App and attach the smartphone with the NFC area to read/write the device until the App shows a successful prompt. It's suggested to configure a device password for security. (Default password: 123456)



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7. Maintenance

- The working life of the detector is 5 years, replace the device if you observe the Invalid indicator blinks.
- The newly decorated or re-decorated room should be ventilated for some time before installing the detector.
- It's suggested to press the Test button to check the LED indicators, buzzer and outputs every month; besides, check if the device is online and send periodic status on the IoT platform.
- To ensure the air inlets are not blocked, wipe the device with a clean dry cloth, do not use a very wet cloth, alcohol, harsh chemicals or detergents which may damage the detector.
- Do not use a lighter or other gas to test the detector, which may damage the detector.

8. Declaration of Conformity

Milesight IoT Display is in conformity with the essential requirements and other relevant provisions of the CE and FCC.



BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	IT	CY	LV	LT	LU
HU	MT	NL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	CH	TR

9. FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.
2. This device must accept any interference received, including interference that may cause undesired operation.

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Note: 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:

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

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.