


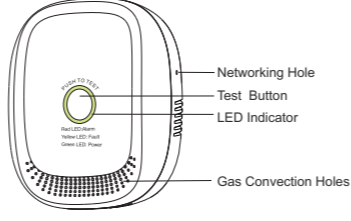
Smart Combustible Gas Sensor
User Manual
HS1CG-Z



Please read the user manual carefully before operation. The guide picture is for reference only. Please in kind prevail.

Product Introduction

This Smart Combustible Gas Sensor adopts super low power consumption Z-Wave wireless networking technology. It is used for detecting combustible gas leakage and preventing harm caused by gas leakage. It also can be used as Z-Wave repeater to extend wireless communication distance. It adopts high stability semiconductor gas sensor, with high stability, little sensitivity drift and may other features. Sensor alarms while gas density in air exceed alarm level. It is applicable for kitchen or possible gas leakage in door areas.



Appearance Instruction

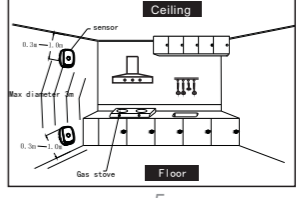
- Working Voltage: AC100V~240V
- Average Power Consumption: <1.5W
- Alarm Sound: 75dB/1m
- Alarm Density: 6%LEL±3%LEL(natural gas)
- Networking: Z-Wave Ad-hoc Networking
- Wireless Networking Distance: ≥70m (in open area)
- Working Environment: -10°C ~ +50°C
- Environment Humidity: Max 95% RH
- Dimension: 79*68*31mm (no including plug)

Specification

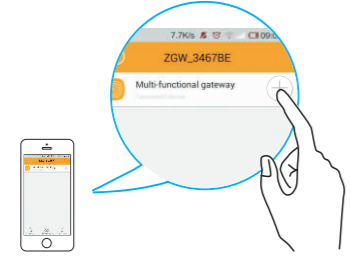
Warm Prompt

- Shell surface will be slightly hot while working, which is a normal phenomenon .
- Please dismantle sensor while decorating house.
- Avoid spraying aerosol around sensor.
- Oil contamination around gas convection holes will effect the sensitivity of gas sensor, after long time using.Suggest users to clear gas convection holes with brush mixing little detergent every 3 months (or depends on specific oil contamination level). Avoidletting detergent enter sensor body. Please retest after cleaning.
- Semi-conductor of gas sensor supports 5-year lifespan. Please replace sensor timely.
- Please do not use lighter to test sensor directly in case of any damage to gas sensor inside.
- For your safety, in addition to use sensor properly, please be vigilant and enhance safety prevention awareness in daily life.

Before installation, pls confirm the detecting gas density, heavier or lighter than air. If detecting gas is heavier than air: LPG., etc, install at 0.3-1m height from floor, semi-diameter to gas source less than 1.5m. If detecting gas is lighter than air: natural gas, manufactured gas, marsh gas., etc, install at 0.3-1m height from ceiling, semi-diameter to gas source less than 1.5m.




Functional Diagram




Please click the add button ("+ ") to enter gateway networking mode.

Power On & Preheating




- Power on the sensor, the green LED will be lit and a "beep" sounded, the sensor enters into preheating state. At this time, red LED and yellow LED flash alternately. The flash will stop 3 minutes later, which indicates that the sensor is in normal working state. (Don't use gas to test sensor while preheating).

Networking Mode



- Network:** According to APP prompting, please press networking hole for 3 times in1.5 seconds, then green LED will flash quickly(the longest networking time is 30 seconds), APP interface will display icon, networking successfully.
- Disconnecting:** Please click delete key of the device, then press networking hole for 3 times in 1.5 seconds, then green LED will flash slowly for 6 times, disconnecting successfully.

Factory Default



- Factory Default:** Long press networking hole for 10 seconds, then ID code will be cleared and the sensor will be reset to factory default.

Light State

State	Color	Light	Alarm Sound
Power	Green	Constantly Lit	None
Alarm	Red	Flashing	"Di-Di" Alarm Sound
Malfunction	Yellow	Constantly Lit	Constantly Buzzing

Test button of this sensor is used for testing whether LED indicator and buzzer can work properly. Red LED and yellow LED flash alternately with buzzer alarming when test button pressed.

Product Testing

Emergency alarm treatment **Fault analysis and troubleshooting**

The detector will keep alarming while the natural gas or LPG density in air exceeds the alarm level. Pls do relative treatments as below:

- Shut down the tube valve right away.
- Extinguish all fire sources and do not use anything can make fire, e.g. lighters, matches., etc.
- Avoiding switches on various electric equipments.
- Open the window and make the air flow rapidly.

Symptom	Reason	Remedy
Always warming up after power on(LED keeps flashing)	1. Long time no power; 2. Test gas detector when warming up.	1. Power on detector and aging test for 24 hours; 2. Do not test detectors when warming up.
Yellow LED keeps on and buzzer keeps beeping	Gas sensor fault	Contact dealer to repair

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.