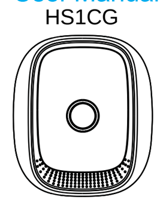
Smart Combustible Gas Sensor User Manual

HS1CG

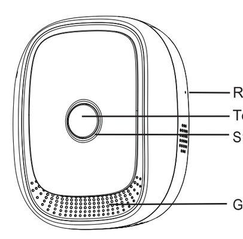


*Please read the user manual carefully before operation.
The guide picture is for reference only. Please in kind prevail.

Production Introduction

This Smart Combustible Gas Sensor adopts extra low power consumption ZigBee wireless module. Used for detecting combustible gas leakage and preventing danger caused by gas leakage. ZigBee repeater, extend wireless transmission distance.Detector adopts high stability semi-condutor gas sensor, with high stability, small sensitivity drift and many other features. Detector alarms while gas density in air exceed alarm level. It is applicable for kitchen or possible gas leaking indoor area.

Appearance Instruction



Specification

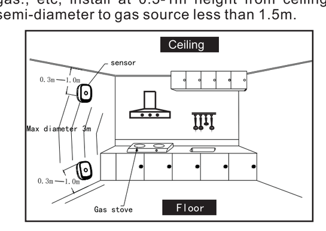
1.Working Voltage：AC100V~240V
2.Average consumption： < 1.5W
3.Alarm sound：75dB/m
4.Alarm density：6%LEL±3%LEL(natural gas)
5.Networking：ZigBee Ad-hoc Network
6.Wireless networking distance: < 100m(open area)
7.Working environment：-10℃~ +50℃;
8.Working humidity: Max 95% RH
9.Dimension: 79* 68* 31mm(no including plug)

Warm Prompt

1.Shell surface has a slight fever while working is a normal phenomenon .
2.Please dismantle detector while decorating house.
3.Avoid spraying aerosol around sensor.
4.Oil adhension on gas convection window may effect the sensitivity of gas detector after long time using, Suggest users to clear gas convection window with brush mixing little detergent every 3 months (or based on specific oil polution lavel). Don't let detergent enter detector's body. Please retest after clean.
5.Semi-conductor of gas detector supports 5-year lifespan, pls replace detectors timely.
6.Pls do not use lighter to test detectors in case of any damage to gas sensor.
7.For your safety, in addition to use detectors properly, pls be vigilant and enhance safety prevention awareness in daily life.

Functional Diagram

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.



- Search keyword"HomeMate"in App Store or Google Play. Download and install the APP.

Google Play | App Store

- Open the APP, add the sensor according to the path guide.

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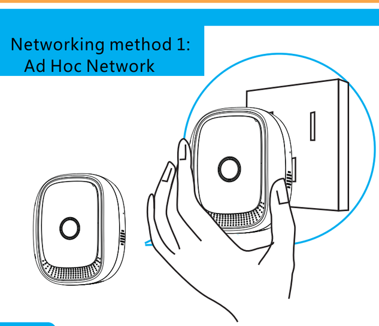
Networking method 1: Ad Hoc Network



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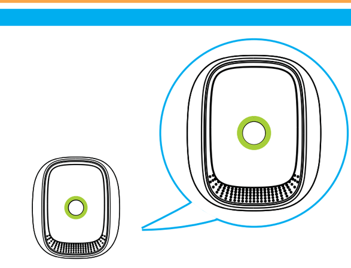
- Insert the gas detector into socket and enter Ad Hoc Network condition, Tips will be showed on APP, networking successfully.



- While power on detector, power indicator on green and buzzer "beep" once, circuit enter warm-up state, then red LED and yellow LED alternately flashing, will stop flashing after 3 minutes means detector has entered normal work status. Please do not test gas when detector warming up.

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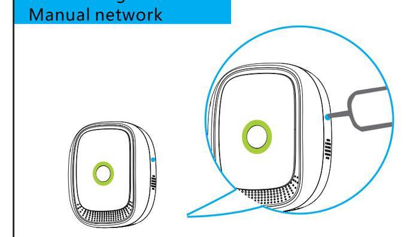
Networking method 2: Manual network



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- After warming up, keep pressing reset key for 2s according to APP tips, green indicator flash quickly, tips will be showed on APP, networking successfully. Green indicator off, after 3s green indicator keeps and detector enters work mode.

Light state

State	Color	Light	Alarm sound
Power	● (green)	Normally on	No
Alarm	● (red)	Flashing	di"alarm
Malfunction	● (yellow)	Normally on	long buzzing

Product test

Test button of this detector is used for testing whether LED indicator and buzzer can work properly. When press test button, detector's red LED and yellow LED flashing alternately, buzzer alarming.

Emergency alarm treatment

The detector will keep alarming while the natural gas or LPG density in air exceeds the alarm level. Pls do relative treatments as below:
1.Shut down the tube valve right away.
2.Extinguish all fire sources and do not use anything can make fire, e.g. lighters, matches., etc.
3.Avoiding switches on various electric equipments.
4.Open the window and make the air flow rapidly.

Fault analysis and troubleshooting

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. F 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.

To comply with FCC RF exposure compliance requirements,this grant isapplicable to only mobile configurations. The antennas used for this transmittermust be installed to provide a separation distance of at least 20 cm from allpersons and must not be co-located or operating in conjunction with any otherantenna or transmitter.