

Smart Combustible Gas Sensor

User Manual

M420-67Ever1.0



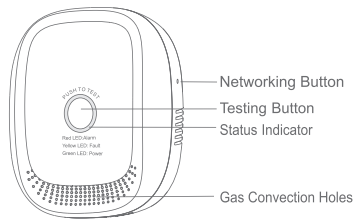
*Please read the user manual carefully before operation.
The guide picture is for reference only. Please in kind prevail.

01/Product 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-conductor 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.

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02 /Appearance Instruction



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03 /Specification

- 1.Working Voltage : AC100V~240V
- 2.Average Consumption : < 1.5W
- 3.Alarm Sound : 70dB/m
- 4.Alarm Density : 6%LEL±3%LEL (natural gas)
- 5.Networking : Zigbee
- 6.Wireless Networking Distance : ≤ 100m (open area)
- 7.Working Temperature: -10°C ~ +50°C
- 8.Working Humidity : ≤ 95% RH
- 9.Dimension : 79*68*31mm (no including plug)

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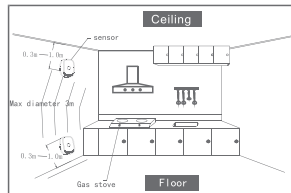
04 /Warm Prompt

- 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 adhesion 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 pollution level). 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.Plis 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.

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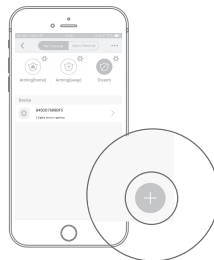
05 /Functional Diagram

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.



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06 /Networking



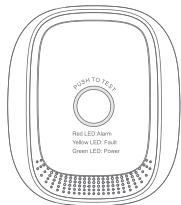
- Open the APP and enter into gateway, then tap "+" to add Smart Combustible Gas Sensor according to the instructions.

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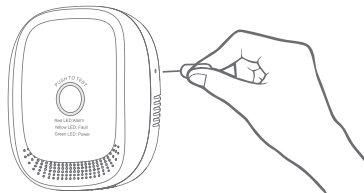
- Insert the gas sensor into socket to power it on.

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

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- After warming up, the detector will enter normal working status. The user can start to add the device to mobile APP.

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- Add device: According to APP prompt, long press networking button for 5 seconds, device come into networking state, green LED flash quickly (5 times per second). Networking success when green LED goes off for 3 seconds and then keeps on, and APP will prompt networking success. If networking failed, green LED flash slowly (2 times per second) for 3 seconds, then keeps on, APP will prompt networking failed. If device can not networking successfully in 60 seconds, networking will stopped and green LED keeps on.
- Note: Press networking button again during networking state, networking process will be stopped, green LED flash slowly in 3 seconds (2 times per second).

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07 /Light state

State	Color	Light	Alarm sound
Warm up	Green/Red/ Yellow	Alternate flashing	No
Power	Green	Normally on	No
Test	Red/Green/ Yellow	Alternate flashing	"di-di" alarm
Alarm	Red	Flashing	"di-di" alarm
Malfunction	Yellow	Normally on	long buzzing

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08 /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.

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09 /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:

- 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.

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10 /Fault analysis and troubleshooting

Symptom	Reason	Remedy
Always warning 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

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11 /Statement

- The information in the user manual is for reference only and does not constitute any form of commitment.
- Without the written permission of the manufacturer, any individual or organization shall not extract or copy part or all of the contents of this user manual, and shall not spread it in any form.
- As the technology is constantly updated, the manufacturer reserves the right to modify the user manual without prior notice. If the user manual and the actual operations is inconsistent, the final interpretation is reserved to the manufacturer herein.

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