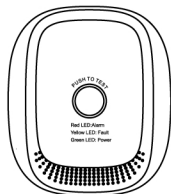


## Smart Combustible Gas Sensor

### User Manual

M414-5EVer1.2

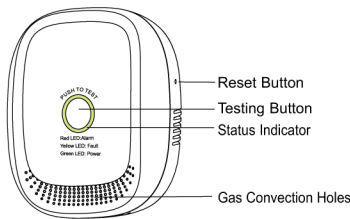


\*Please read the user manual carefully before operation.  
The guide picture is for reference only. Please in kind prevail.

#### 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-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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#### Appearance Instruction

- 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°C ~ +50°C
- 8.Working Humidity : Max 95% RH
- 9.Dimension : 79\*68\*31mm (no including plug)

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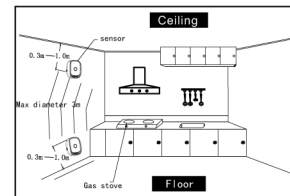
#### Specification

#### Warn 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.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.

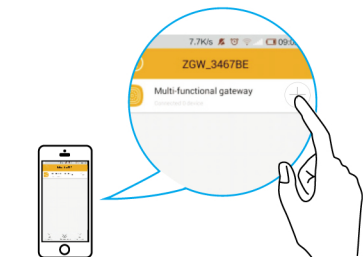
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Before installation, pls confirm the detecting gas density, heavier or lighter than air. If detecting gas is heavier than air: LPG., etc, install at 0.3-1m height from floor, semi-diameter to gas source less than 1.5m. If detecting gas is lighter than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



- Click add device key on the APP interface to enter the networking mode.

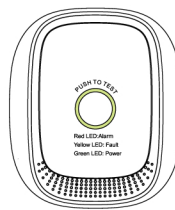
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- Insert the gas detector into socket and enter Ad Hoc Network condition, Tips will be showed on APP, networking successfully.

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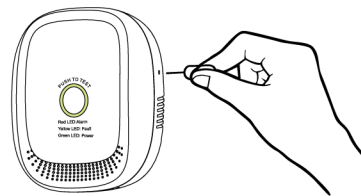


- While power on detector, power indicator on green and buzzer "beep" once, circuit enter warm-up state, then red LED and yellow LED alternately flashing, will stop flashing after 3 minutes means detector has entered normal work status. Pls do not test gas when detector warming up.

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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.

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#### Light state

#### Product test

State	Color	Light	Alarm sound
Power	Green	Normally on	No
Alarm	Red	Flashing	di"alarm
Malfunction	Yellow	Normally on	long buzzing

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 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:

- 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.

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

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