

## User Guide for Combustible Gas Detector

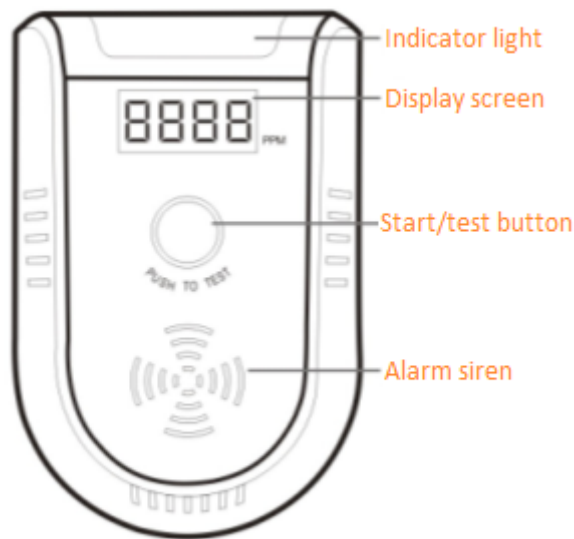
### A、 PRODUCT INTRODUCTION

The product is a smart combustible gas detector with voice prompt, microprocessor control, support displaying of the gas concentration. When trigger the gas detector, it will alarm with build-in siren, send notifications to the wireless alarm system and close the relay output at the meantime. This detector adopt catalytic combustion method sensor which is stable and reliable. It keep the place safe from the threats of combustible gas (such as liquefied petroleum gas, natural gas, methane, etc.) .

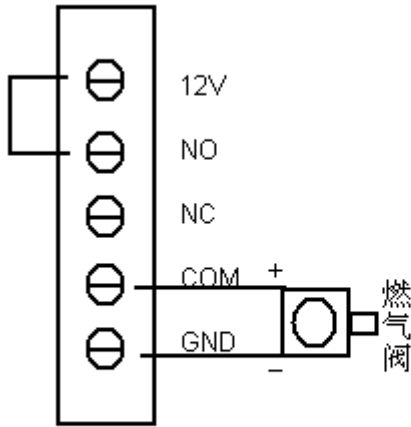
### B、 PRODUCT FEATURE

- Human voice prompt, Chinese and English are optional
- High reliable catalytic combustion method
- Gas concentration displaying (PPM)
- Power supply from AC 100V-240V with build-in battery
- Intelligent microprocessor control
- Auto detect sensor failure
- Auto send notification to host when alarm
- One relay output when alarm

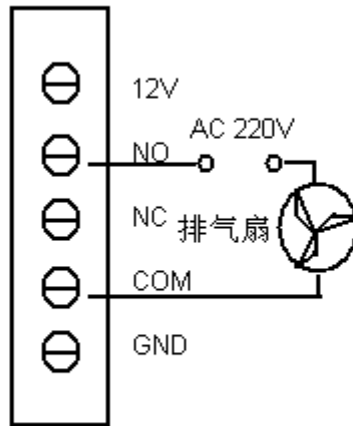
### C、 PRODUCT APPEARANCE



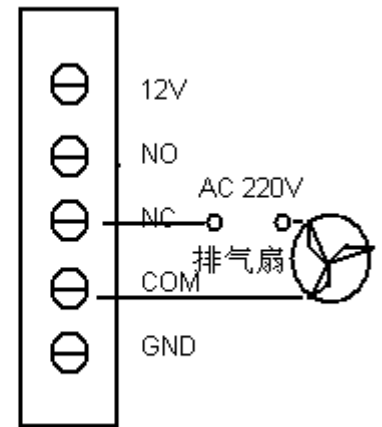
### D、 The wiring diagram



燃气阀接线图



常开继电器输出接线图



常闭继电器输出接线图

燃气阀: Gas valve

排气扇: Exhaust Fan

燃气阀接线图: The wiring diagram of gas valve

常开继电器输出接线图: The wiring diagram of relay output

常闭继电器输出接线图: The wiring diagram of relay input

## E、 OPERATION INSTRUSION

### 1. FIRST START

Connect the detector to 100V-240V power, then will light up the indicator light and voice prompt as "Welcome to use gas alarm system, testing, please wait 3 minutes". Will display 3 minutes counting when the gas detector is in starting-up.

### 2. STANDBY

After start, the machine will turn into standby status. Its display will flash and display "--" every 20 seconds if no gas leak.

### 3. ADD GAS DETECTOR TO THE HOST

After startup the gas detector, press the test key to send a signal to host when the host is ready to add accessories. It is success if the host receive this signal.

### 4. GAS CONCENTRATION

The LED display will display the gas concentration when over 1000PPM, and display "HHHH" when over 9999PPM.

## **5. ALARM**

When the gas concentration is over 250000M, the gas detector will alarm and voice reminding: "attention please, gas leaking", the siren will alarm and relay closure, at the meantime, gas detector will send the notification to host. At this moment, please close the gas valve and open the door to clear the gas and inform the professional to check. If it is false alarm, please check whether the installation place is suitable or not.

## **6. LANGUAGE**

The gas detector support both languages of Chinese and English, pressing the test key for 10 seconds within the 3 minutes of the starting up, until it display "EN" and voice reminding "Welcome to use gas alarm system", it means that the system was changed into English language. If need the Chinese language, do the same again.

## **7. DETECTOR FAULT**

When the detector is in fault, it will alarm and display "FAIL", as well voice reminding "detector fault", meantime, will send a notification to the host.

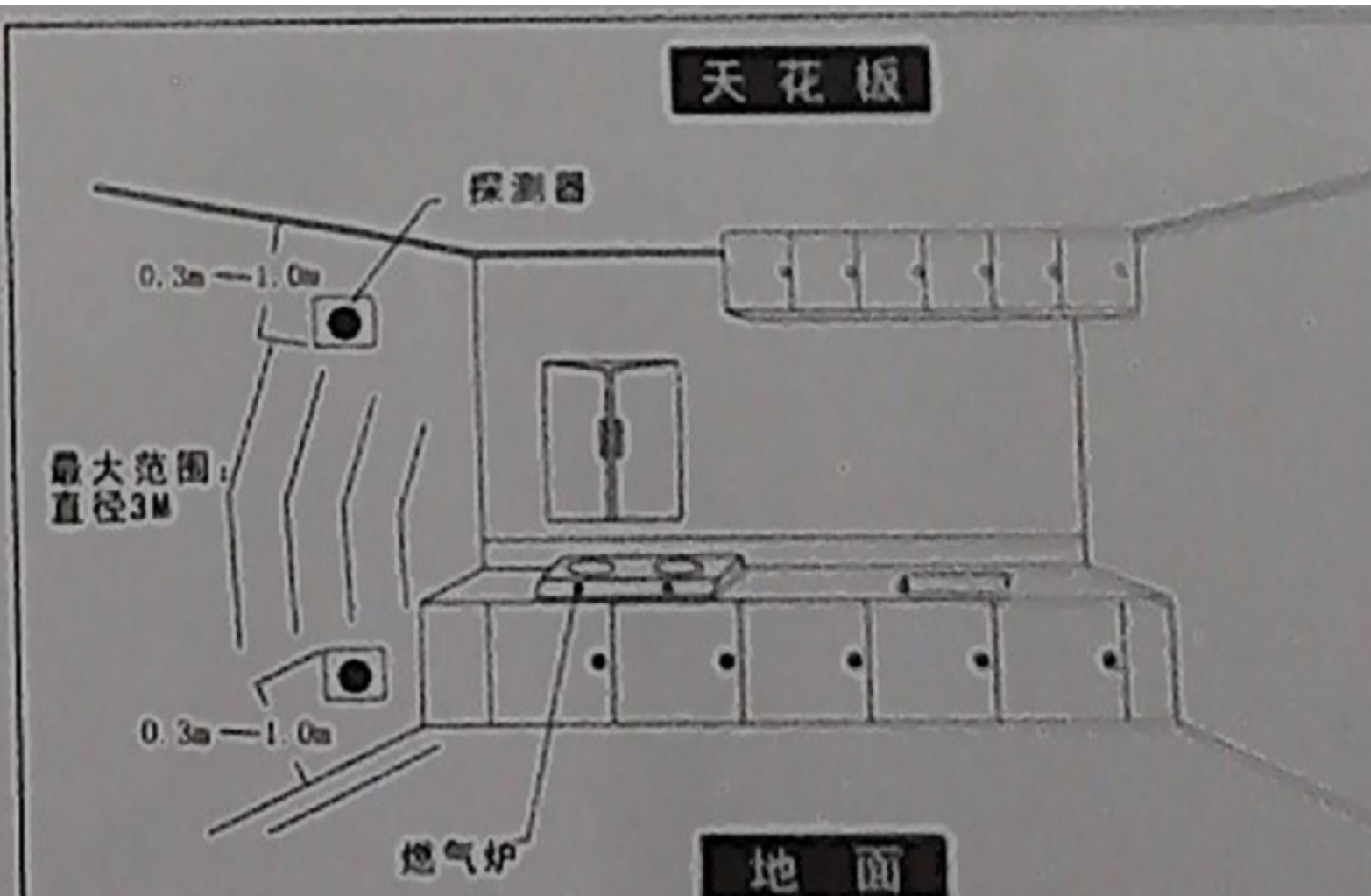
## **8. CALIBRATION**

After sharp pounding and shock, the accuracy of the measurement of the gas detector might be affected, so it need to calibrate now:

- 1) After run the gas detector in the clean air for 3 minutes, then take out the battery.
- 2) Press the test key to reboot the system, then will hear "DuDuDu..." for 10 times. After this, release the test key and the gas detector start to calibrate and display "----", it will take 40 seconds to finish the calibration.

## **F、 INSTALLATION**

1. Please confirm the induced gas is heavier than air, or lighter than air. the gas is heavier than air: LPG etc. the gas is lighter than air: natural gas, marsh gas and etc.
2. Choosing the suitable position to install the Detector according to the gas specific gravity. Detecting the gas heavier than air: Installation height from floor, 0.3-1.0m, semi-diameter to gas source < 1.5m; Detecting the gas lighter than air, Installation height from ceiling, 0.3-1.0m, semi-diameter to gas source < 1.5m



天花板	ceiling
探测器	Gas detector
最大范围直径 3M	<3M
燃气炉	Gas burner
地面	Ground

3. Avoid installing the detector close to the following sources of interference: direct air flow from vents, fans, doors, windows, sources of steam, oil vapor, etc.
4. All wires installation must accord with the national and local effective laws and criteria. The wires must have the suitable size and colorful marks for avoiding connecting error. And unsuitable connection of wires will result in the alarm error while gas leaking happened.

## **G、 TECHNICAL PARAMETER**

1. AV voltage: AV 100V-240V 50-60Hz
2. Battery voltage: 9V rechargeable battery(optional)
3. Working temperature: 0-50°C
4. Environment Humidity: 10%-95%
5. Alarm Density: 2500PPM ( $\pm$ 1500PPM)
6. Alarm time: keep alarming after over 2500PPM
7. Wireless working frequency: 433MHz
8. Wireless working distance: 150M (in open area)
9. Size: 120×80×35MM

## **H、 NOTICE**

1. The gas detector is easy to be effected by the sharp pounding and shock in transit or installation, lead to not work.
2. This is a Combustible Gas Detector, can not detect the poisonous gas such as CO.
3. Scheduled maintenance: surface cleaning per month, specialist inspection per half year.
4. Do not use the detergent to clean the gas detector, this will damage the gas detector.
5. Do not spray any sprays such as air freshener, hair spray,etc.