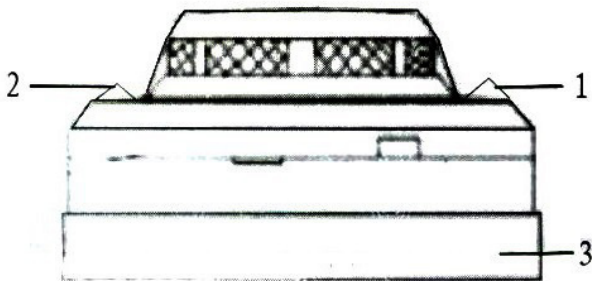


## Product Description

This item is a high stability combustible gas detector which can be used to detect the leakage of combustible gas. It adopts the most advanced semiconductor components. Thus, this detector has stable performance, long warranty and can be installed easily. This detector adopts central monitoring processing which makes various functional modules connected with the wire of I/O directly or indirectly. The internal procedures in the embedded MCU enable the various functional modules to work normal so that the detector can work more stably and more safely. This detector is suitable for those places which have combustible gas, such as households, villas, hotels and apartments.

## Product picture



1. LED indicator (red and green)
2. LED indicator (red and green)
3. BASE

## Product features

- High reliability sensor
- Auto-reset
- Microprocessor adopted
- Automatic default-checking function
- Detect combustible gas

## Technical parameter

Operating voltage: DC9-16V

Static current:  $\leq 90\text{Ma}$

Alarm current:  $\leq 100\text{Ma}$

Rated power:  $\leq 3\text{W}$

Preheating time: 120s

Alarm indication: red LED flash

Default indication: red LED flash and buzzer for long time

Alarm SPL:  $\geq 75\text{Db}$

Working temperature:  $-10 \sim 50^\circ\text{C}$

Humidity: 95%RH

Mounting mode: ceiling mounted or wall mounted

Alarm mode: network output, sound & flash alarm

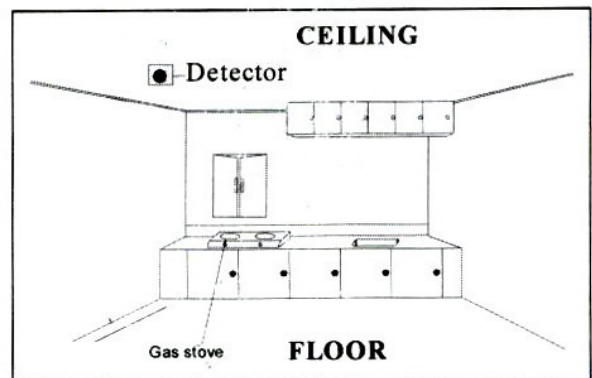
Dimension: 110\*70\*40mm

Sensitivity: 10LEL

Lifetime of sensor: 5 years

## Wiring and installation

- 1: Make sure if the gas to be detected is lighter than air or not, such as natural gas, coal gas, methane or LPG.
- 2: Install the detector at a suitable place according to the detecting gas. If it is used to detect gas which is heavier than air, the mounting height will be 0.3 to 1 meter over the land and the mounting distance should be within 1.5 m; if it is used to detect gas which is lighter than air, then the mounting height will be about 0.3m to 1m below the ceiling and the mounting distance also should be within 1.5m.



- 3 fix the screw on the wall and hang the detector on the screw.
4. make sure that the detector is not close to gas stove for fear that the detector may be burned by the flame from the gas stove; make sure that the detector is not installed in those places which have heavy smoke for fear that the detector may give out alarm sound wrongly or the sensitivity of the detector may decrease due to the fact that air inlet is blocked; make sure that the detector is not installed in those places, such as door and window, bathroom and extractor fan.

5. make sure that the temperature of the installation place is not below 4°C or above 38°C, such as living room, loft, corridor and garage. Since too low or too high temperature will influence the sensibility of the detector.

6. make sure that all the wires are connected correctly. 2 to be connected with 12V positive, 1 to be connected with negative pole, 3 and 4 to be connected with signal, N/C or N/O.

## Operation instruction

This detector can be used alone or connected with mainframe to give out network output.

1. used alone

(1) Choose a suitable position to install the Detector according to the wiring and installation.

(2) With the power supply, the circuit enters into self-test state, the red LED flashes for a second, the Buzzer sends out the alarm sound 'Di', which runs the inside sensor (warm-up state). After doing that the green LED flashes once a second for about 3 minutes continuously, the red LED stops flashing which means the Detector comes into normal working state.

2. Connected with mainframe

(1) Choose a suitable position to install the Detector according to the INSTALLATION. Connect the detector with the mainframe and choose N.C or N.O according to the requirement of the mainframe.

(2) With the power supply, the circuit enters into self-test state, the red LED flashes once a second, the Buzzer sends out the alarm sound 'Di', which runs the inside sensor (warm-up state). After doing that the green LED flashes once a second for about 3 minutes continuously which means the Detector comes into normal working state.

3. While detecting the gas leaking, the red LED flashes, the Buzzer sends out the alarm sound 'Di', and outputs the network signal. The Detector will return to the detecting state after the gas disappears.

4. The buzzer long beeps and the red LED ON means the inside sensor failure.

5. If the Detector runs disorderly, cut the power off and return again. If still in wrong, please contact the After Service Center.

## Lighting indication

Green light for long time : Normal work state  
Green light flash : Preheating state  
Red light flash : Gas leakage  
Red light for long time : Internal malfunction

## Routine maintenance

If the detector has been used for a long time, there will be some greasy dirt adhered to the detector which may influence the sensibility of the detector. So users are supposed to clean the fluid window every three months with cleanser and brush. Be careful that the cleaning fluid does not come to the inside of the detector. And it will be better to test the detector after the cleaning.

## What to do in the case of gas leakage

When the density value of combustible gas reaches or over the alarm density value set at production, the detector will automatically come into the continual alarm state. Users are supposed to do as follows:

1. Close the valve of the detector as soon as possible.
2. Open the window and make sure that the air in the house is going smoothly.
3. Extinguish all the fire source and avoid using any item which may produce sparks.

## Notice

1. The detector must be installed and connected correctly. It can not work if without the power supply orderly.
2. Please periodically maintain according to the directions.
3. The detector must have a test every half a year.
4. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may