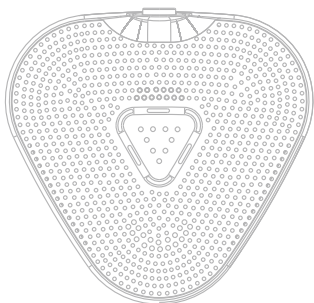


FD-H1 Household Gas Alarm



OPERATION MANUAL

PRECAUTIONS:

Please read this manual carefully before using this product and keep it for future reference, any deviation from the instructions may compromise the safety, quality and performance of this device.

1 Description

The FD-H1 Household Gas Alarm, which is of high sensitivity, has a compact design and reliable performance. Adopting high-quality smart sensors and advanced techniques, the device is suitable for gas leak detection in premises where a gas leak is possible to occur, such as household, hotel, shopping mall. The device will alarm with red flash light when gas concentration reaches alarm set point, keeping people safe from accidents like fire, explosion, suffocation, etc.

2 Functions and Indicators

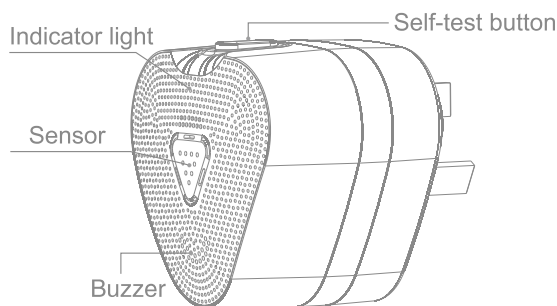


Fig. 1

3 Installation Instruction

Where in the room should the alarm be located?

The alarm should be installed at a distance from the gas source radius within 1.5M, more than 30cm below the ceiling for methane (like LNG), or more than 30cm above the floor for propane and butane (like LPG) (see Fig. 2).

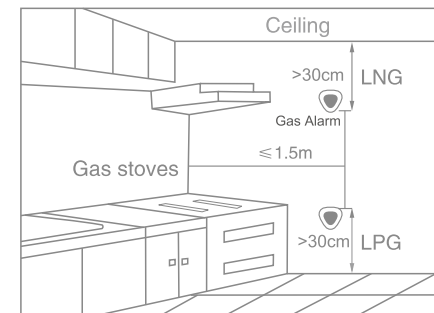


Fig. 2

Do not locate your alarm:

- Outside the building;
- In a damp or humid location;
- Next to an extractor fan;
- Next to a door or window;
- In an enclosed space (e.g. in a cupboard or behind a curtain);
- Where dirt and dust may block the sensor;
- In an area where the temperature may drop below -10 °C or exceed 50 °C;
- In an area where the alarm may be easily knocked, damaged or moved;
- Too close to openings or ventilation ducts (since the airflow at these places may be high and may locally decrease the gas concentration);
- Immediately above or next to gas appliances (since small gas releases may occur before ignition that may result in unwanted alarms);

• Near cookers (may lead to alarms produced by cooking vapors not gas escapes, and contamination by grease that may impede correct operation of the alarm).cm of the floor for petroleum gas or LPG (see Fig. 2).

4 Technical Specifications

Model number	FD-H1
Gas detected	Combustible gas
Sensor Type	Semi-conductor
Sampling method	Diffusion
Alarm set point	5% LEL
Warm-up time	180±10S
Response time	≤30S
Recovery time	≤30S
Working voltage	AC110V-220V
Maximum power	<1W
Alarm mode	Beep sound with red indicator light

Alarm sound level	≥70dB
Service life	5 years (under normal use)
Weight	About 55g
Size	51×43×49mm
Temperature range	-10°C to 50°C
Humidity range	0% to 97%
Pressure range	86kPa-106kPa

5 Working Process

(1)Plug in an outlet.

(2)Preheating: The alarm will warm up for 3 minutes with the light keeps green, till there's a "beep" sound, warming up finish.

(3)Monitoring: After warming up, the gas alarm goes into normal monitoring status, and keeps light green.

(4) Alarming: When the concentration of combustible gas in the air reaches over 5% LEL, the red light of the alarm starts to flicker and will keep emitting strong "beep" sounds

to warn user that there is gas leakage in the environment,it will go back to normal status when gas concentration below alarm point.

6 Alarm Status

Warm up (static green): after it's plugged in, the alarm will warm up for 3 minutes, during which the indicator light keeps static green. when there's a beep sound, alarm warming up process finish.

Monitor (static green): When warm-up is finished, the alarm changes to monitor status, and the indicator light keeps static green.

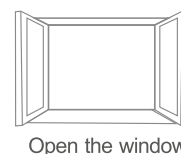
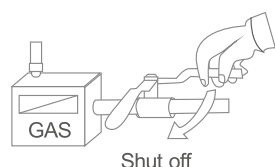
Alarm (red): When gas concentration reaches over alarm set point, the red light starts to flicker while the alarm keeps emitting strong "beep" sounds to warn user that there is gas leakage in the environment.

Fault (yellow): When something is wrong with the alarm, the yellow light starts to flicker while the buzzer emits short

"beep" sounds. Under the circumstances, you need to re-plug it.

Self-test: This button is used to test if the sounder and indicator work normally. It's recommended to do this at least **once a month**. Press the test button when the device is not in alarm status, normally the alarm should then beep with red flash light, and in few seconds alarm should stop and device will go back to monitor status, which means the self test is finished and the device is good.

7 In the Event of an Alarm!



Alarm is a warning that potentially dangerous levels of combustible gas are detected. Never ignore this alarm, remain calm and take immediate action:

1. Extinguish all naked flames, including all smoking material;
2. Turn off all gas appliances;
3. Do not touch any electrical equipment, including the gas detection apparatus;
4. Turn off the gas supply at the gas main control or the storage tank;
5. Open doors and windows to increase ventilation;
6. Do not use a telephone in the building where the presence of gas is suspected.
7. If the alarm continues to beep and you cannot find the leakage source or it cannot be turned off, evacuate IMMEDIATELY, then contact professionals.

8 Troubleshooting Guide

Symptom	Possible Cause	Remedy
Green indicator light off	Not plugged in	Re-plug
	Indicator light failure or circuit failure	Contact us
Self-test no response	Circuit failure	Contact us
No response when gas detected	Warm-up unfinished	Wait until warm-up is finished
	Circuit failure	Contact us
Alarm keeps beeping	In an environment where people smoke or drink a lot, or there is VOC (perfume, gas, paint, etc)	Move device to clear place to see if it works normally
	Circuit failure	Contact us