PE-8601 – Wired / Wireless Compatible Gas Detector
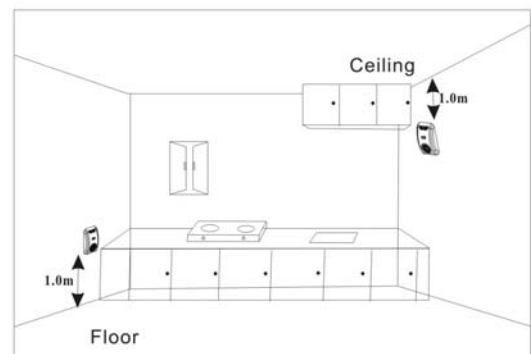
User Manual

PE-8601 is wired and wireless compatible gas detector, it adopts advanced low electric current gas sensor, enable detect let out gas in time, and match wired and wireless alarm signal compatible, so that accurate reflect the alarm situation currently. adjust the detect sensitivity base on different working environment, reduce false alarm, more stable, built-in louder siren and alarm LED indication, it can inform the people when gas density over than the standard level at the first time, so that protect people life, and it also can send out the wireless or wired signal to alarm control panel, alarm control panel can call or send out SMS message to inform people if not at home.
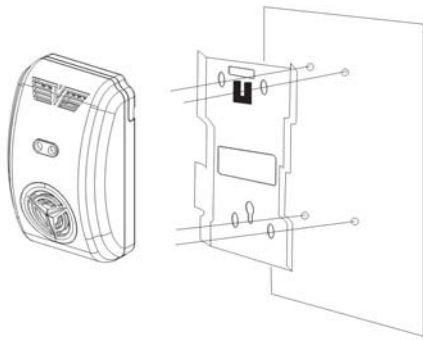
Features:

1. adopts nanotechnology sensor with self-design patented technology
2. low false alarm / high stability / longer working life / wall mounting / low power consumption
3. alarming information excluding and automatic resume
4. gas detected included coal gas / natural gas / LPG (liquefied petroleum gas)
5. alarm density: gas - 0.1～0.5% / natural gas - 0.1～0.3% / LPG - 0.1～0.5%
6. alarm output: sound and light siren / wireless alarm signal indication
7. alarm volume: ≥85dB/m
8. alarm density 15%LEL / resume density 8%LEL
9. working status alarm density ≤±5%LEL / repeat test alarm density ≤±5%LEL
10. when the gas density is higher than Air like LPG, the gas sensor should be installed on the wall (around 0.3-1.0m high from the floor / the distance to gas source radius is less than 1.5m)
11. when the gas density is lower than Air like coal gas / natural gas, the gas sensor should be installed on the wall (around 0.3-1.0m under the ceiling / the distance to gas source radius is less than 1.5m)
12. wireless emitting frequency: 433MHz/868MHz
13. wireless emitting range is 100m (in open area)
14. alarm time around 3 minutes / built-in louder siren
15. operating environment: temperature: -10℃～+50℃ / relative humidity: ≤90%RH
16. power input: DC12V/500mA
17. dimension is 130*65*40mm / ivory white color

Installation:

1. checking the detected gas density higher or lower than Air;
   higher than Air density: LPG (liquefied petroleum gas)
   lower than Air density: natural gas, carbon monoxide, coal gas or methane
2. install the gas detector on situable place base on gas density;
   higher than Air density: around 0.3-1.0m high from the floor, the distance to gas source radius is less than 1.5m
   lower than Air density: around 0.3-1.0m under the ceiling, the distance to gas source radius is less than 1.5m

3. don't install gas detector on more smoke or steam place
4. don't install near window side, bathroom or more hydrosphere place

Installation Guide:
1. mark the drill hole, and drill on the wall
2. using the screws with countersink heads, so that fix the frame on the wall
3. install gas detector on frame which had been fixed on wall

Operation:

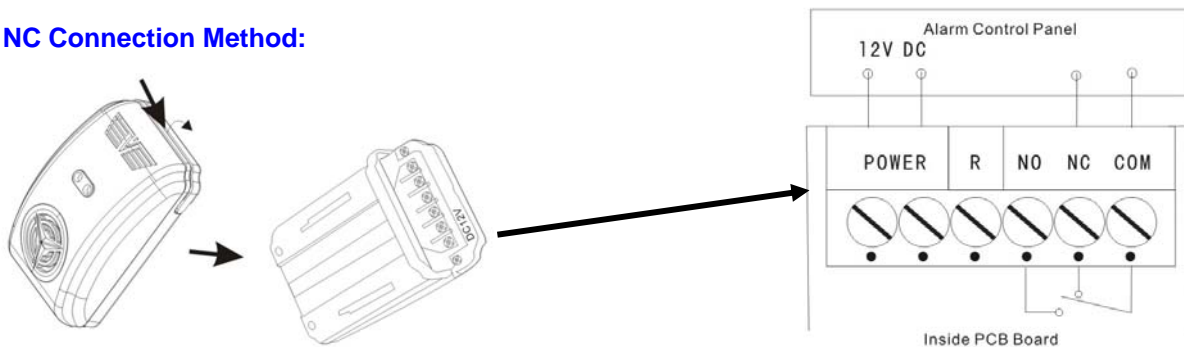gas detcetor can work with alarm control panel or by itself.

1. operation alone
    1.1 no need to connect with other equipment, when it detect gas more than the standard level, it will make the alarm by itself via built-in louder siren and alarm LED light flash;
    1.2 install it on the suitable place;
    1.3 it need warm-up after turned on the power, around 2 mins, it will be on the working mode.
2. connect with alarm control panel
    2.1 it can connect with alarm control panel via wired cable or wireless coding signal to match;
    2.2 choose DC12V power input, it need warm-up first, and will be on working mode after 2 mins.
3. gas detector detect flammable gas had been leak out, alarm LED indication flash (red light), and also make the alarm via built-in siren at the same time, send out wired or wireless signal to alarm control panel, when alarm disarm, it will resume the working mode automatically.
4. if the alarm LED light (red light) flash for a long time, it means the inside sensor had been broke, and must be cut down the power for replacement.
5. if gas detector working abnormity, turn off and on the power adapter, if still can't fix this problem, please contact our local distributor.

Wired NC Connection Method:

Alarm Control Panel
12V DC

POWER	R	NO	NC	COM

Inside PCB Board

Coding Method: **(between gas detector and wireless alarm control panel)**

1. gas detector on normal mode, connect the external power adapter and power LED light will flash few seconds; alarm control panel on wireless coding mode (please refer alarm control panel user manual), press coding switch to sending the wireless signal to alarm control panel, if alarm control panel make the corresponding indicate sound, it means match code successfully.
2. alarm control panel on manual coding mode, enter the 9 digit address code to match, this will be a higher probability of coding success.

Testing:

1. use lighter (no fire mode) to send out flammable gas around 5 cm between gas detector, so that testing the alarm and sensitivity.
2. don't testing more via flammable gas, due to it can reduce the gas sensor sensitivity.
3. when gas density reduce, it will stop the alarm and return back the normal working mode automatically.

Warning:

when the flammable gas density higher than alarm setting density, gas detector start the alarm, so at this moment, you must be do:
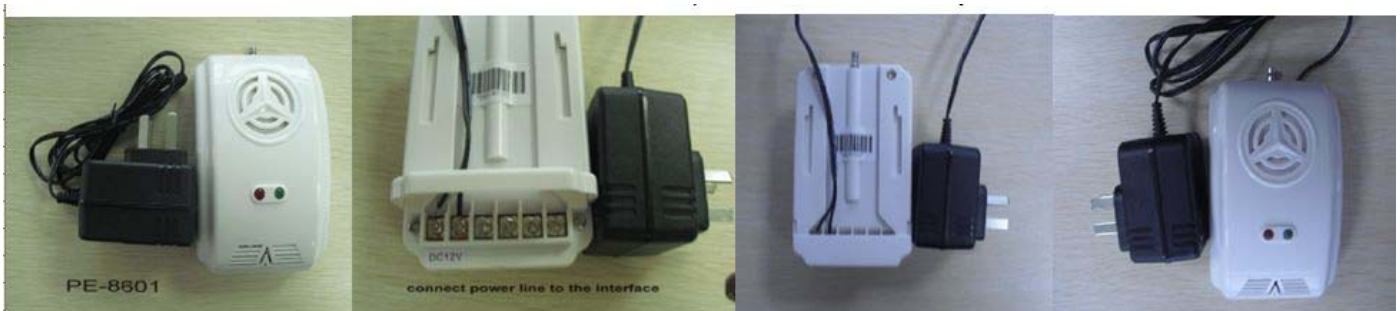
1. close the gas channel;
2. open the window / air convection;
3. close all fire source / close off all can make spark goods;
4. don't turn on or turn off power;
5. checking the reason of let out gas, and inform corresponding person to manage it in time.

Maintenance:

gas detector use for a long time, the gas convection detect part had been polluted, affect the gas detect sensitivity, better to clean it every 3 months, don't let the water inside unit, so that avoid break the inside electronic accessory, please re-testing after clean it.

Note:

1. must be use the correct power adapter (DV12V/500mA), if no power input, gas detector can't working;
2. if on warm-up status, it will make the false alarm, but it also will auto resume working mode after 2 mins;
3. fix testing / every half an year (6 months);
4. gas detector only can reduce the accident happen, but it can't make the full satisfaction, for your safety life, except use this gas detector correctly, and also must be enhance safe prevent consciousness.

How to connect the external Power Adapter with Gas Detector correctly?

Warning: we are not responsible for the problem caused by improper operation or change the product configuration, it may lose the authority of product warranty!