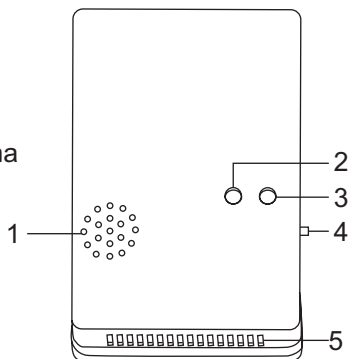# Senzor de gaz wireless PNI GD10
Manual de utilizare

Introducere:

Acest produs este un detector de gaz cu fiabilitate ridicata ce se monteaza pe perete, destinat identificarii scurgerilor de gaz. Senzorul semiconductor avansat asigura durata de viata indelungata. Produsul este destinat folosirii in locuinte, vile, magazine, pensiuni de familie etc.

Descriere produs:

1. Buzzer
2. LED alarma
3. LED stare
4. Buton test/inrolare in sistem de alarma
5. Fante intrare gaz

Caracteristici principale:
- Fiabilitate ridicata
- Resetare automata dupa indepartarea cauzei alarmei
- Procesare printr-o unitate de microcontrol
- Detectare automata eroare senzor
- Detectare gaze naturale / GPL
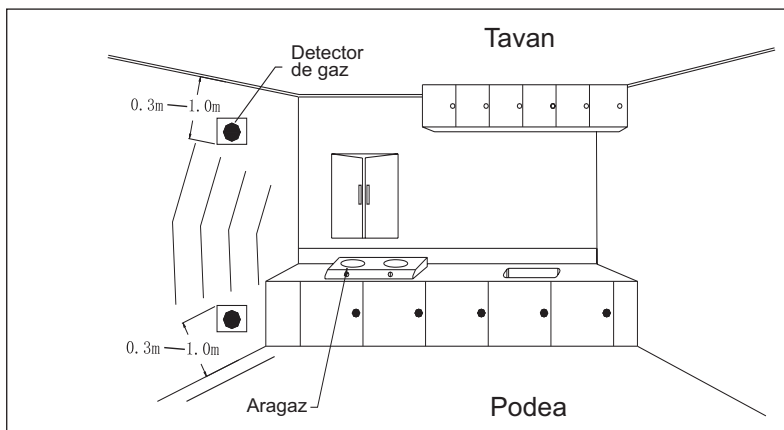- Special pentru montajul pe perete, stabilitate ridicata

Specificatii tehnice:

- Frecventa comunicare wireless cu centrala de efractie   433 MHz
- Alimentare   220V
- Consum   standby: 90 mA / in alarma: ≤ 100 mA
- Timp incalzire   ~ 180 sec
- Nivel alarmare   10% LEL (nivel minim de explozie)
- Indicator alarma   LED rosu
- Nivel sunet alarma   ≥ 85dB/m
- Distanta comunicare wireless   pana la 100m in camp deschis
- Temperatura mediu de utilizare   -10 ~ 50 °C
- Dimensiuni/greutate   110x70x40 mm / 200 g

Instalare:
1. Identificati mai intai daca gazul din incapere este mai greu sau mai usor decat aerul. Gaze mai grele decat aerul: GPL; gaze mai usoare decat aerul: gaz natural, gaz metan etc.
2. In functie de greutatea gazului, alegeti pozitionarea corecta a detectorului de gaz. In cazul in care gazul este mai greu decat aerul, pozitionati detectorul de gaz la o inaltime de 0,3 - 1,0 m fata de podea, pe o raza de max. 1,5 m de consumator. In cazul in care gazul este mai usor decat aerul, pozitionati detectorul de gaz la o inaltime de 0,3 - 1,0 m fata de tavan, pe o raza de max. 1,5 m de consumator.

3. Fixati bine suruburile in perete, dupa care pozitionati detectorul de gaz.
4. Evitati instalarea detectorului de gaz in apropierea urmatoarelor surse: flux direct de aer cauzat de vant, ventilatoare, usi sau ferestre deschise, surse de abur, vapori de ulei etc.

Instructiuni de utilizare:
1. Alegeti locul potrivit instalarii detectorului de gaz. Urmati instructiunile de instalare.
2. Alimentati detectorul de gaz la o priza de 220V. LED-ul verde va clipi o data pe secunda timp de 3 minute, timp necesar incalzirii senzorului. Cand LED-ul verde ramane aprins, inseamna ca dispozitivul a intrat in starea de functionare normala.
3. Daca senzorul detecteaza o scurgere de gaz, LED-ul rosu clipeste, buzzerul intern va suna si un semnal de alarma va fi trimis catre centrala de alarma. Detectorul de gaz se va intoarce la starea initiala de functionare dupa dispersarea gazului.
4. Daca buzzerul intern suna continuu iar LED-ul rosu este aprins - indica o eroare a senzorului intern. Intrerupeti alimentarea si contactati un centru service.
5. Daca detectorul functioneaza in mod discordant, intrerupeti alimentarea la curent si reinitiati procedura de punere in functiune. Daca problema persista, contactati un centru service.

Testare
Pentru a testa un detector de gaz instalat, puteti raspandi in aer un pic de gaz la o distanta de 5 cm fata de fantele pentru gaz ale detectorului, folosind o bricheta

neaprinsa. Testarea frecventa poate cauza reducerea sensibilitatii senzorului. Detectorul va intrerupe alarma si va reintra in modul normal de functionare, dupa ce densitatea de gaz va scadea sub nivelul de alarma.

Inrolare intr-un sistem de alarma wireless

Atunci cand unitatea centrala de alarma este in modul de inrolare a dispozitivelor apasati butonul de test al detectorului de gaz, acesta va trimite un semnal iar unitatea centrala il va receptiona si il va inrola in sistem.

Intretinere

Utilizatorul ar trebui sa curete o data la trei luni fantele de gaz ale detectorului si ar trebui sa testeze detectorul dupa curatare ca sa se asigure ca nu a patruns substanta de curatat la senzor.

Procedura in caz de alarma

Detectorul intra in starea de alarma daca densitatea gazului din incapere depaseste nivelul minim de alarma. In acest caz procedati in felul umator:
1. Inchideti imediat valva de alimentare cu gaz
2. Deschideti fereastra si lasati sa patrunda rapid aer in incapere
3. Inchideti orice sursa de foc si nu folositi nimic care ar putea cauza un foc, de exemplu brichete, chibrituri etc.
4. Evitati sa aprindeti orice echipament electric, inclusiv sursele de iluminat
5. Incercati sa gasiti locul exact unde are loc scurgerea de gaz si anuntati imediat institutiile specializate sau o persoana calificata

Informatii LED

LED rosu intermitent	scurgere de gaz
LED rosu aprins	eroare senzor
LED verde aprins	functionare normala
LED verde intermitent	incalzire senzor

Avertizari

1. Detectorul de gaz trebuie instalat si conectat in mod corect. Nu poate functiona daca nu este alimentat la o sursa de curent.
2. Intretineti in mod regulat detectorul conform indicatiilor.
3. Testati functionarea detectorului la fiecare sase luni.
4. Din diferite motive, cum ar fi schimbarea conditiilor de mediu, intreruperea curentului electric sau actionarea frauduloasa asupra sistemului electronic, produsul ar putea sa nu functioneze corespunzator. Utilizatorul este sfatuit sa ia toate masurile de precautie privind siguranta sa si a bunurilor sale.
5. Acest detector nu poate comanda o electrovalva de gaz.
6. Evitati lovirea detectorului deoarece puteti defecta senzorul din interior.

Wireless gas detector PNI GD10
User manual

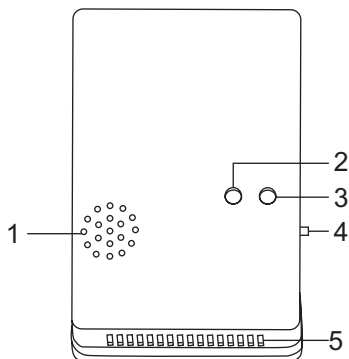**Introduction:**

The product is a wall mounted gas detector with high stability. It is used for detecting leaking gas.I uses an advanced semiconductor sensor to ensure high stability and long life. The product is suitable for the safety of residential homes, villas, hotels, markets, boarding house etc.

Product description:

1. Buzzer
2. Alarm LED
3. Status LED
4. Test/programing button
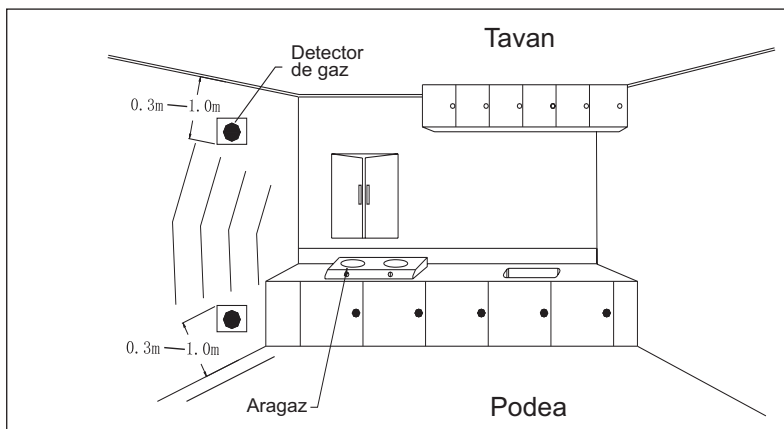5. Gas convection holes

Main features:
- High reliability sensor
- Auto reset after alarm
- MCU Processing adopted
- Auto detect sensor failure
- Induced gas - natural gas / LPG
- SMT design, high stability

Techinal specifications:

- Wireless communication frequency   433 MHz
- Power   220V
- Consumption   standby: 90 mA / alarm: ≤ 100 mA
- Warm-up time   ~ 180 sec
- Alarm level   10% LEL (lower explosive level)
- Alarm indicator   red LED
- Sound level   ≥ 85dB/m
- Distanta comunicare wireless   up to 100m in open space
- Operating temperature   -10 ~ 50 °C
- Size/weight   110x70x40 mm / 200 g

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

3. Fix the screw into the wall firmly, then hang the detector.
4. 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.

Using instructions:
1.Choosing a suitable position to install the detector
2. With AC 220V power supply, the green LED flashes once per second for about 3 minutes continuously, that runs the inside sensor (warm-up state). After doing that, the green LED lights, that means the detector comes into normal working state.
3. While detecting the gas leaking, the red LED flashes, the buzzer sounds, and output the network signal. The detector will resume to the detecting state after the gas dispersed.
4. The buzzer long beeps and the red LED ON means the inside sensor failure. Please cut off the power, and contact the After Service Center.
5. If the detector runs disorderly, cut the power off and rerun again. If still in wrong, please contact a service center.

Test
          To test the installed detector you can give some gas around in distance of 5 cm to the convection holes by using un-ignited lighter.Testing frequently may reduce the sensitivity of the detector. The detector will stop alarm and resume the detecting state when the gas density is reduced to lower than the alarm level.

Progaming into an alarm system

When the alarm main unit is in programing mode press the test button on the gas detector, this will send a signal to the alarm unit and it will program it into the system.

Maintenance

Suggestion: the user must brush and clean the gas convection holes with a little cleanser every three months, and must retest the detector after cleaning for preventing the cleanser into the detector.

Emergency alarm procedure

The detector alarms while the gas density in air exceed the alarm level. The relative treatments as below:

1. Shut down the gas valve right away.
2. Open the window and make the air flow rapidly.
3. Extinguish all fire sources and do not use anything can make fire, e.g. lighters, matches, etc.
4. Avoiding open or close the power all kinds of electric equipment.
5. Check the reason of gas leaking, and notice the relative departments and professional persons in time.

LED information

Red LED flash	gas leaking
Red LED ON	sensor error
Green LED ON	normal functioning
Green LED flash	sensor warm-up

Notes

1. The detector must be installed and connected correctly. It can not work without a proper power supply connection.
2. Please periodically maintenance according to the directions.
3. Test the detector 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 not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.
5. This detector can not control a gas electrovalve.
6. Avoid hiting or droping the detector because the sensor inside can be easily damaged.