



ECUATEPI S.A.

FICHA TÉCNICA

**INGENIERÍA DE
INCENDIOS**

EXTINTORES

MANUAL FOR COMBUSTIBLE GAS DETECTORS

PRODUCT INTRODUCTION

The product is wall mounted gas detector with high stability (hereinafter called detector). It is used for detecting leaking gas. Advanced semiconductor sensor is adopted to ensure high stability and long life. It is convenient for mounting. The product is suitable for the safety of residential house, villas, hotels, markets, boarding house etc.

MAIN FEATURE

- HIGH RELIABILITY SENSOR
- AUTO RESET AFTER ALARM
- MCU PROCESSING ADOPTED
- AUTO DETECT SENSOR FAILURE
- INCLUDE GAS-NATURAL GAS/LPG
- SMT DESIGN, HIGH STABILITY

TECHNICAL SPECIFICATION

Operating Voltage: DC12V, DC24V, AC85~265V option

Static Current: $\leq 100\text{mA}$

$\leq 30\text{mA}$ (low power consumption type)

Alarm Current: $\leq 130\text{mA}$

$\leq 50\text{mA}$ (low power consumption type)

Rating Power: 3W (AC 220V supply)

Warm-up Time: about 180S

Alarm Level: 10%LEL

Alarm Indicator: red LED flash

Failure Indicator: yellow LED on & beeper long-buzz

Sound Level: 85dB/m

Operating Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Environment Humidity: $\leq 95\text{RH}$ (no congelation)

Installation Mode: wall mounted

Alarm Output: Sound & flash alarm

Relay output (optional)

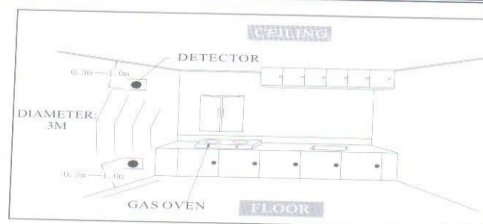
Wireless signal output (optional)

Radio Distance: 100m in open area (wireless type)

Execute Criterion: GB15322.2-2003

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.
 - 1> Detecting the gas heavier than air: Installation height from floor: 0.3-1.0m, Semi-diameter to gas source: $\leq 1.5\text{m}$;
 - 2> Detecting the gas lighter than air: Installation height from ceiling: 0.3-1.0m, Semi-diameter to gas source: $\leq 1.5\text{m}$.



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.

5. 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.

OPERATION INSTRUCTION

The Gas Detector can be used independently, Or with wired networks output functions (network type). Or wireless RF signal or solenoid drive signal.

1. Independently Type

(1) Choosing a suitable position to install the Detector according to the INSTALLATION.

(2) With power supply, the green LED flashes once a second for about 3 minutes continuously, that runs the inside sensor (warm-up state). After doing that the green LED lights on, that means the Detector comes into normal working state.

2. Wired network Type

(1) Choosing a suitable position to install the Detector according to the INSTALLATION. To connect the detector with the controller, with the N.C. or N.O. contact according to the controller system.

(2) With power supply, the green LED flashed once a second for about 3 minutes continuously, that the green LED lights on, that means the Detector comes into normal working state.

3. 433MHz Wireless Type

Match code: Press the detector test button, and press the wireless control panel match code button, usually the panel will send "Di". Then if the detector alarm, the wireless control panel will receive wireless signal.

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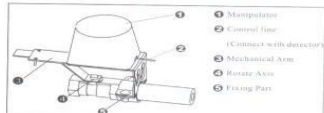
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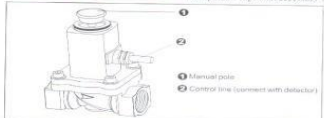


4. While detecting the gas leaking, the red LED flashes, the Buzzer sends out the alarm sound "Di ...Di", and output the network signal. If the detector is connected with valve or manipulator, it will drive them to shut off the gas pipeline supply. The Detector will resume to the detecting state after the gas dispersed.
5. Push the button down, the detector will start to self-test. The power green LED light on, and red LED flash once every 1s, the yellow LED light on.
6. The buzzer long beeps and the yellow LED ON means the inside sensor failure. Please cut off the power, and contact the After Service Center.
7. If the Detector runs disorderly, cut the power off and rerun again. If still in wrong, please contact the After Service Center.

ACCESSORY PROFILE



Manipulator (optional accessory)



Electric/manual gas valve (optional accessory)

TEST

To test the installed detector while using independently or in network, you can give some gas around in distance of 5cm to the gas convection holes by using un-ignition lighter. Testing frequently may result in reducing the sensitivity of the Detector. The alarm density of gas is set according with the criteria of GB15322.2-2005. The Detector will stop alarm and resume to the detecting state while the gas density reduced to lower than the alarm level. The alarm output switches can connect with the defense input switches.

DAILY 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, preventing the cleanser into the Detector.

EMERGENCY TREATMENT

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

1. Shut down the tube valve right away.
2. Open the window and make the air flow rapidly.
3. Extinguish all fire sources and do not use anything that 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 relevant departments and professional persons in time.

LED INFORMATION

| | |
|-----------------------|--|
| Warm-up inside sensor | Green LED flash every 1s For 3 minutes |
| Test status | Green LED on Red and Yellow LED flash 3 times every 1s, off for 4s |
| Normal work status | Green LED on |
| Gas leaking | Green LED on Red LED flash once every 1s |
| Sensor fault | Green LED on Yellow LED on |

NOTICE

1. The detector must be installed and connected correctly. It can't work if without the power supply.
2. Please periodically maintenance 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 not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

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