PRODUCT INTRODUCTION
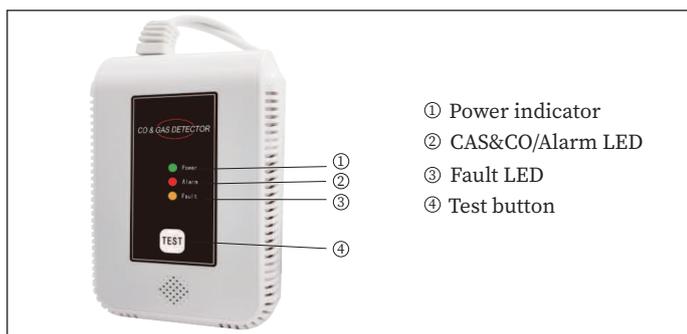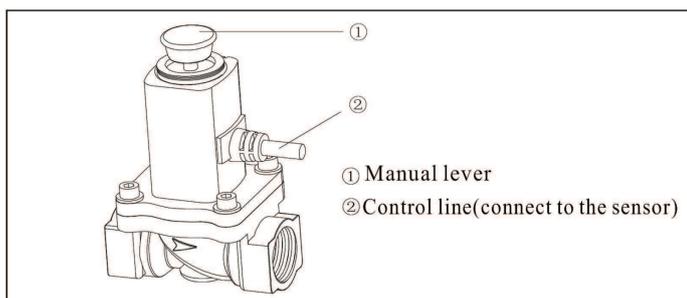
The product is wall mounted compound gas&CO detector with high stability (hereinafter called detector). It is used for detecting leaking gas and CO. Advanced semiconductor sensor is adopted to ensure high stability and long life. It is convenient for mounting. Built-in MCU connected to I/O of all kinds of functional modules, with its program written in the MCU to coordinate all the modules work properly, stable and reliable. The product is suitable for the safety of residential house, villas, hotels, markets, boarding house etc.

PRODUCT PROFILE

① Power indicator
② CAS&CO/Alarm LED
③ Fault LED
④ Test button

① Manual lever
② Control line(connect to the sensor)

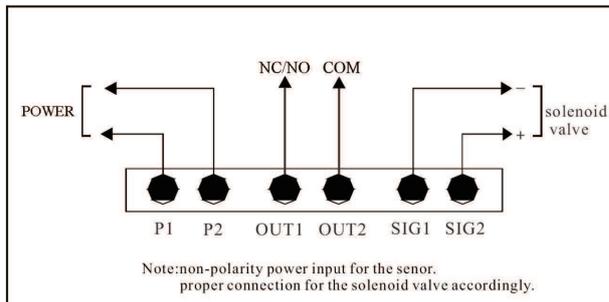Solenoid valve(optional)

TECHNICAL SPECIFICATION

Operating voltage	AC85~264V DC12 or DC24V optional
Rated power	≤3W
Gas alarm sensitivity	10%LEL
Sound level	≥85 dB/m
Operating temperature	-10℃ ~+50 ℃
Environment humidity	95%(no congelation)
Alarm output	Sound & flash alarm Network type Solenoid value output Wireless signal 315MHz or 433MHz
Emission distance	100m without barrier (wireless type)
Size	120*80*39mm
Warm-up time	About 180s
Installing	Wall-mounted

CONNECTION GUIDE

All connection methods must comply with local standards. The thick of the line should be appropriate, improper wire connection will not alarm when gas is leaking.
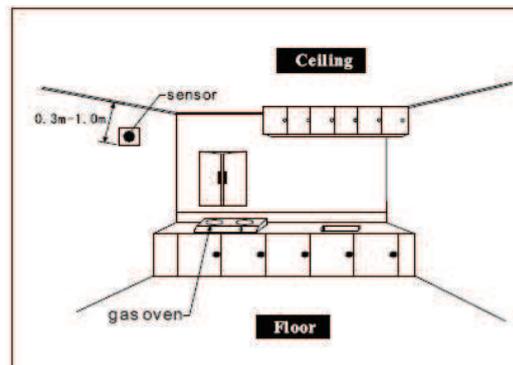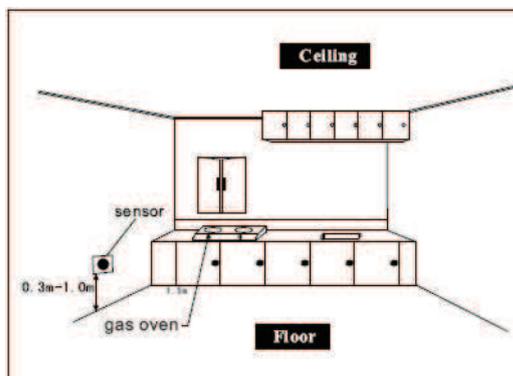

Wire connection diagram

INSTALLATION

1. First to make sure the leaking gas is lighter or heavier than air, such as gas is heavier than air and LNG (contains CH4)is lighter than air, the same condition for manufactured gas (contains CO),methane, etc.
(1)If the leaking gas is lighter than air, install the sensor at 0.3-1m under the ceiling, and near the leaking gas within 1.5m (see below map)

(2)If the leaking gas is heavier than air, install the sensor at 0.3-1m above the floor, and also near the leaking gas within 1.5m (see below map)

2. Hang the detector on the wall, make sure it is stable and fixed.
3. When installing the sensor for home use, do not install in dirty, dusty or oily areas, such as the kitchen and garage house. Oil, dust, or household chemicals can contaminate sensor head, so that alarm can't work properly. The detector

will not be installed by curtains, furniture or other objects blocking the air flow in. Do not install in poorly ventilated places, such as the top of vaulted ceilings and the top of sharp roof, where carbon monoxide can't be induced early to alarm. Do not install in the strong wind from the ceiling fan, do not install around windows and doors which through to the outdoors, fresh air vents or any nearby place. The rapid circulation of air from the fan or the outdoors will affect the sound level and the sensitivity of the detector.

PRODUCT OPERATION

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

1. Independently

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

(2) Connect to the power supply, circuit is getting into self-testing status, the power LED light on, indicators of CO&GAS flash green for once, the buzzer give a sound "Di", the sensor gets into warm-up state. After doing that the green LED is lighting on once a second. After 3 Minutes the detector gets into normal state, now CO&GAS indicators light off, after 90 seconds, the green LED light on for every 10 seconds, it is cycling in such state.

2. In wired network

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 optional accord with the controller system. Connect to the power supply, circuit is getting into self-testing status, the power LED light on, indicators of CO&GAS are lighting green for once. The buzzer give a sound "Di", the sensor is into warm-up state. After doing that the green LED is lighting on once a second. After 3 Minutes the detector get into normal state, now CO&GAS indicators light off, after 90 seconds, the green LED light on for every 10 seconds, it is cycling in such state.

3. While detecting the leaking gas, the indicator of CO&GAS flash in red color, meanwhile the buzzer sends out the alarm sound "Di Di", (meanwhile or output the network signal, or output the RF signal, or give power to the fan, or drive the solenoid valve to cut off the gas pipe). The Detector will resume to the detecting state after leaking gas was dispersed.

4. Fault occurs when CO&GAS indicators are lighting on yellow, and give alarm sound all the time.

5. When fault occurs, please cut off the power supply, then connect to the power supply again to let it self-testing, if it still alarm continuously, please contact after-sale service.

PRODUCT TEST

1. Combustible gas test: after installation and getting into normal detecting state, with a lighter without fire to spray out some gas within 5cm near the detector, it will alarm. After detecting the gas, there should be a signal coming out to the control panel. Don't do this test too frequently, this will cause the sensitivity of the sensor getting down. When the concentration of the gas is under the alarm level, the detector will turn to normal detecting state.

2. CO test: after self-testing and get into detecting state, push the test button, the CO indicator flash in red color, meanwhile alarm sound "Di Di", without pushing , it will get into normal state.

Note: CO is a kind of poisonous gas, not suitable to test in the open air.

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 CO 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 INDICATOR

Power LED is green, in pre-heating state，it flash once every 1s，in normal state and alarm state，it light on.

Indicator Status	CO indicator	GAS indicator
Pre-heating state	Green LED flash once	Green LED flash once
Normal state	Green LED flash once for every 10 seconds	Green LED flash once for every 10 seconds
CO alarm	Red light flash	Light off
GAS alarm	Light off	Red light flash
GAS fault	Light off	Yellow light flash

NOTICE

1. The detector must be installed and connected correctly. It Can't work if without the power supply.

2. Please keep maintenance according to the directions periodically.

3. The detector is valid for 3 years, must have a test every 3 months, any invalid test must repair or change.

4. The detector can decrease accident, but can't avoid all accident, for the sake of your safety, the user is advised to take all necessary precautions for his/her safety and the protection of his/her property.