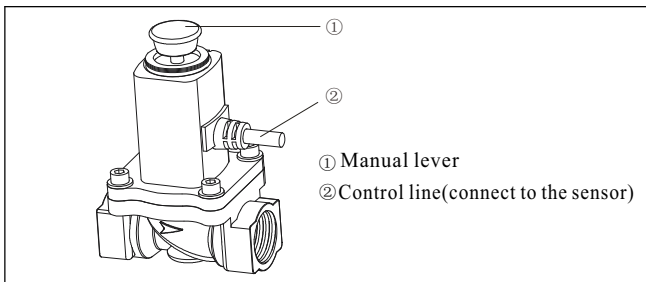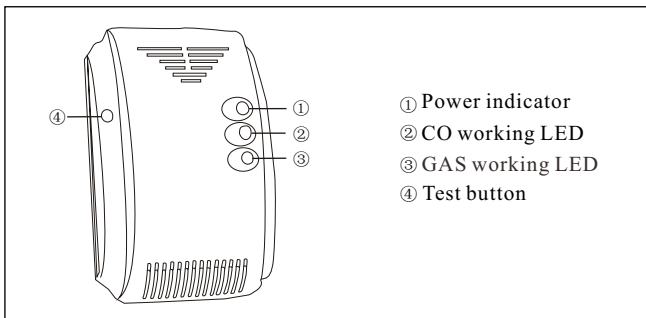## PRODUCT INTRODUCTION

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.
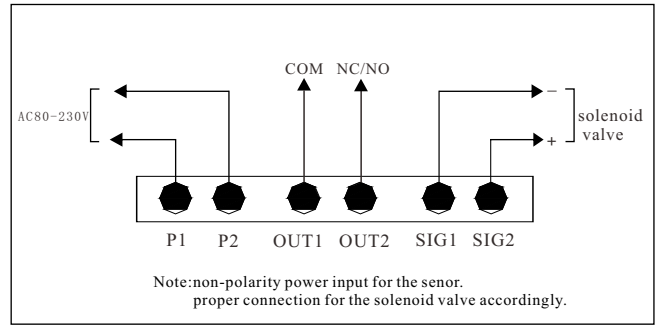
PRODUCT SKETCH

① Power indicator
② CO working LED
③ GAS working LED
④ Test button

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

Solenoid valve(optional)

MAIN FEATURE

Operating voltage	AC80-230V
Rated power	$\leqslant$ 3W
Gas alarm sensetivity	10%LEL
Sound level	$\geqslant$ 85dB/m
Operating temperature	$-10℃\sim+50℃$
Environment humidity	95%(no congelation)
Alarm output	sound &flash alarm/network type/solenoid valve output/wireless signal 315MHz or 433MHz
Emission distance	100m without barrier(wireless type)
Size	115 * 72 * 45 mm
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.

COM   NC/NO

AC80-230V

solenoid valve

P1   P2   OUT1   OUT2   SIG1   SIG2

Note:non-polarity power input for the senor.
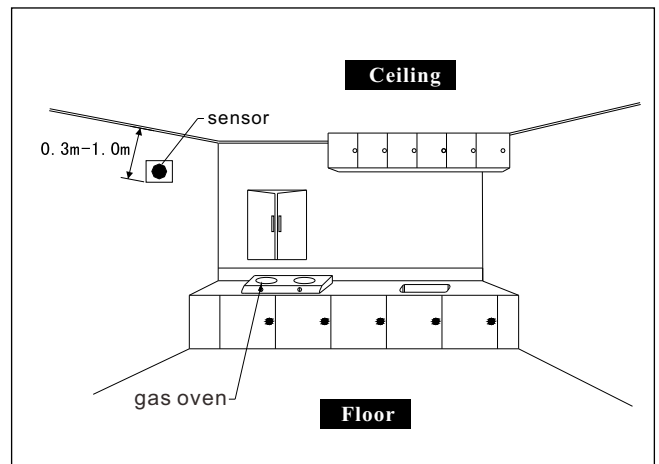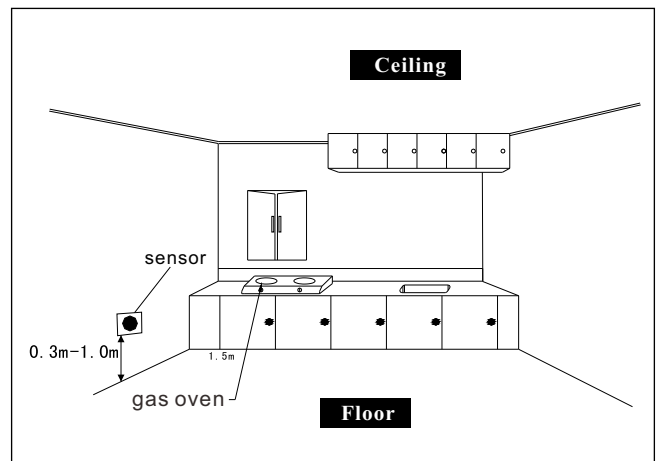proper connection for the solenoid valve accordingly.

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)

Ceiling

sensor

0.3m-1.0m

gas oven

Floor

(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)

Ceiling

sensor

0.3m-1.0m

1.5m

gas oven

Floor

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 House, garage and house. Oil, dust, or household chemicals can contaminate sensor head, so that alarm can not working 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 not be induced early to alarm. do not install inthe strong wind from the 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 theoutdoors will affect the the sound level, the sensentivity of the detector.

PRODUCT OPERATION

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

(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 are lighting red 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 30 seconds, it is cycling in such state.

2.In wired network

(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 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 red 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 30 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",

and output the network 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,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 in to normal detecting state, with a lighter without fire to spray out some gas within 5 cm 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 often, 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.

PRODUCT OPERATION

indicator status	CO indicator	GAS indicator
pre-heating state	green Led flash	green Led flash
normal state	green Led on for 30s every 90 seconds(cycle)	light off
CO alarm	red light flash	light off
gas alarm	green Led on for 30s every 90 seconds(cycle)	red light flash
CO fault	yellow light on	light off
gas fault	green Led on for 30s every 90 seconds(cycle)	yellow light on

NOTICE

1. The detector must be installed and connected correctly. It Can not 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 every3 months,any invalid test must repair or change.

4. The detector can decrease accident, but can note 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.