

# CARBON MONOXIDE DETECTOR MANUAL

This product is an intelligent carbon monoxide detector with voice prompt (hereinafter referred to as detector). Using CPU control, the detector can display the carbon monoxide concentration, ring the siren when the detector got triggered. It works stably. It has beautiful appearance and you do not need to debug it. It can be widely used for fire safety alarm monitoring in residential, shopping malls, hotels and other places. The detector has a buzzer with a high decibels sound after the alarm.

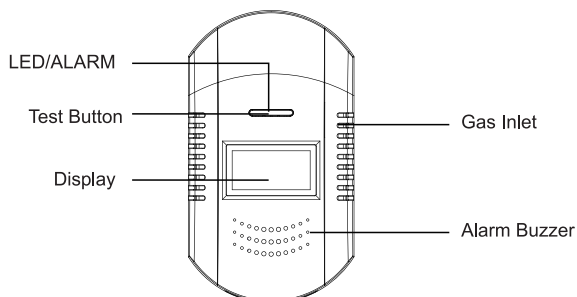
## Technical Parameters

Detecting gas	Carbon monoxide
Work voltage	DC12V~24V
Power consumption	≤3W
Operating condition	0 C ~ +55 C
Operating humidity	≤95%
Alarm density	200PPM/(±50PPM/)
Alarm time	Keep alarming all the time if the concentration is more than 200PPM
Buzzer	≥70(1m)
Sampling method	Natural diffusion
Alarm mode	Sound & flash, NO/NC
Dimension	120*68*32mm
Weight	175.8g

## Functional Characteristics

1. Adopt advanced planar semiconductor gas sensor
2. Can display the carbon monoxide concentration
3. Microprocessor intelligent control
4. Sensor fault detection automatically

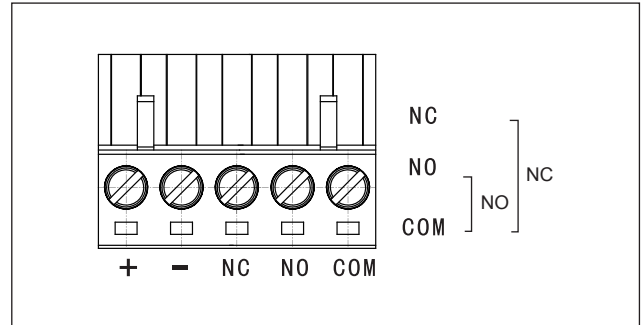
## Diagrammatic Sketch



## Terminal block installation guide

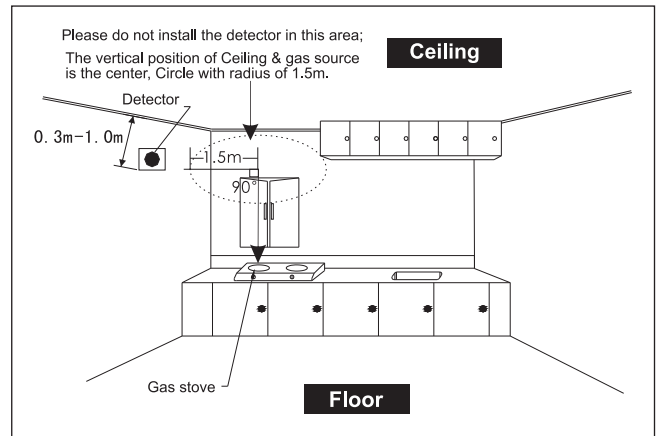
All wires installation must comply with national or local rules and criteria. The wires must be appropriate size, wrong connection will result in alarm error when gas leaking.

DC12~24V power supply

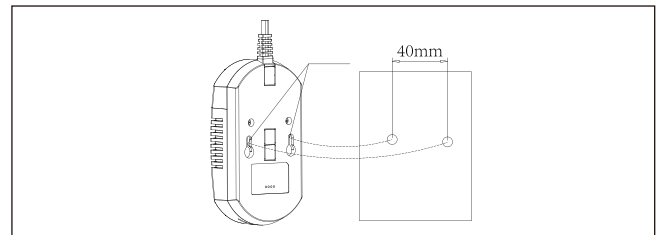


## Installation

1. Suitable installation is 0.3-1.0m lower than ceiling and at least 1.5M far from the gas source radius.



2. Fix the board on the selected place by screw, insert the detector and revolve it, then check whether it is firm or not.



3. For home installation should pay attention, please do not install the detector near the gas stove, to avoid detector bake by the stove flame, do not install in the place with large lampblack, to avoid wrong alarm or cause the detector air intake not smooth, which greatly affect to sensibility of the detector, please do not fix near the ventilators, windows, doors, shower room with much source of steam.

## Test

After the detector is installed, you use a lighted cigarette at a distance from the gas convection window 5cm, then blow same smoke to the alarm inlet to check carbon monoxide alarm. Due to the inherent characteristics of the sensor, please don't release plenty of gas with high density to test the detector and do not frequently or long time test the detector which might cause the damage of detector sensitive material and the fall of the detector sensitivity greatly, all would result in fault alarm. When the concentration of carbon monoxide below the set value, the detector will automatically stop to alarm, and be restored to the monitoring state.

## Alarm Processing

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When the concentration of carbon monoxide in air reaches or exceeds the alarm set value, the detector will enter into continuous alarm state. Then please follow the below steps.

1. close the pipe fixed door immediately
2. open the window at once to ventilate the room
3. extinguish all the fire sources and avoid to use everything that can produce sparks
4. avoid switching all kinds of electrical appliances
5. check the causes of gas leakage and notify relevant departments and relevant professional personnel in time to deal with it. If it is false alarm, the user should check the location of the detector is fixed suitable or not.

## Operation Description

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### 1. Power up

Connect the power, the power indicator light up, the detector enter into the preheating state, and the digital display shows 30 seconds countdown.

### 2. Normal state

The preheating state be completed, when the green power indicator light is always on, the detector enters the normal working state.

### 3. Alarm state

When the detector detects the concentration of carbon monoxide exceeding 200PPM, it will trigger the buzzer, and the flashing lamp. At this time, you should immediately turn off the gas valve, open the doors & windows to ventilate the room and notify the relevant departments and relevant professional treatment to deal with it. When the concentration is restored to normal, the detector automatically returns to normal state. If it is false alarm, the user should check the location of the detector is fixed suitable or not.

### 4. Test state

In the normal working state, press the test key 1 times, the detector enters into the self-examination program, the buzzer rings, and the alarm light flashes.

## Install Environment

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Any electrical products have the using environment requirement, this product installation should pay extra attention following items:

1. Avoid the product to touch high temperature water vapor, long time influenced of lampblack; if could not avoid, should install exhaust fan, ventilator etc. Equipment near to the detector.
2. Avoid to install in high humidity environment; that means the place with plenty of water vapor, water.
3. Avoid to install in high or low temperature, should be above 55°C or under -20°C.
4. Please be far always from following gases: organic silicon vapor, formaldehyde, methyl-benzene, acetic acid, hydrogen sulfide, etc which mainly produced by house decoration, decoration material, such as binder, wall painting, hairspray, silicon rubber etc. These gases would cause the detector damage, not possible to recovery, and cause the detector give fault alarm. In addition high density formaldehyde vapor would cause the fault alarm.

## Matters Need Attention

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1. The product must work with correct connection and right power supplier, the detector could not work normally no matter what's reason caused the power off,.
2. Please take off the blister in time after the detector keeping work for 24 hours powering on.
3. The product should keep periodic maintenance according to the user manual.
4. The detector could not work without life time limit, our recommended validity life is 3 year, it should be test every half year, and you should repair or change after find it invalid.
5. The product could not use high density gas to test, otherwise it might reduce the sensor sensitivity, and cause the sensor could not work normally.
6. The product could reduce the accident, but could not make sure a hundred percent safe. For your safety, please keep precaution and enhance safety consciousness in daily life, besides using our products correctly.