

# The User Manual of MD-2001R Carbon Monoxide Gas Detector

## Product Introduction

MD-2001R is very sensitive to detect the carbon monoxide concentrations. When the gas concentration to achieve a certain standard. The detector will sound and light alarm. And transmit the alarm signal to the alarm center at the same time. Its Stability, long lifespan, low consumption, ceiling installation, elegant in design, 360 degree full detection. Easy installation, safe and reliable. Commonly used in household residential, real estate and villas, hotels, apartments some of existence of combustible locations.

## Product Specification

Voltage:3V (2pcs AA battery)

Static Current $\leq 10\mu\text{A}$

Alarm Current:about 80mA(instant)

CO concentration $\geq 30\text{ppm}$ , alarm after 120 minutes

CO concentration $\geq 50\text{ppm}$ , alarm after 60-90 minutes

CO concentration $\geq 100\text{ppm}$ , alarm after 10-40 minutes.

CO concentration $\geq 300\text{ppm}$ , alarm after 3 minutes.

RF emitting frequency:433MHz

Wireless communication distance $\geq 100\text{m}$ ( visible distance)

Alarm voice: alarm interval 10 seconds (300-400ms)

Buzzer Volume: 85dB

Low battery alarm hold time:15-30 days

Sensor type:Electrochemical carbon monoxide sensor

Sensor working temperature range:-20°C-50°C

LCD normal working display temperature range:0°C-50°C.

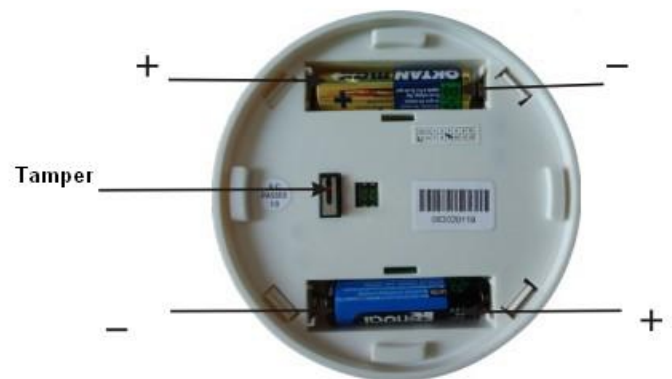
Pressure range: standard atmosphere  $\pm 10\%$

Humidity range:20%-90%RH

Sensor lifetime:5 years

L button: inquiry the maximum concentration value of history

R button: clear alarm



## Product installation

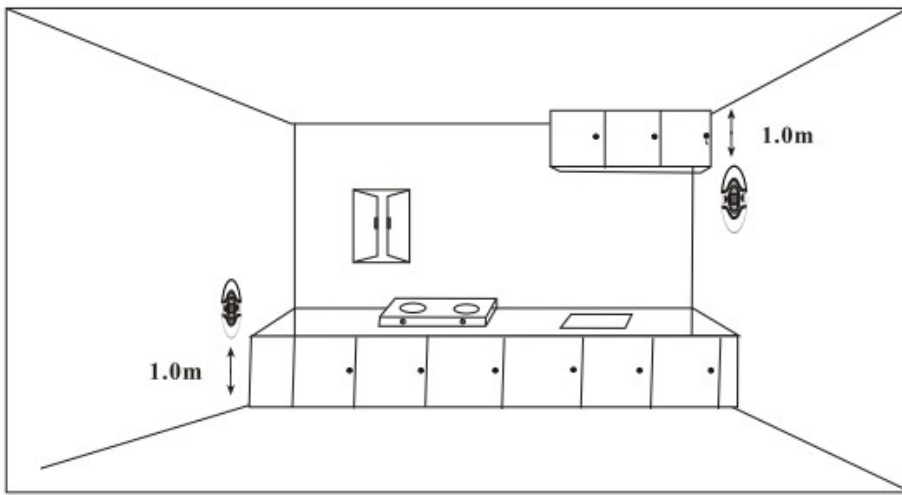
1. First please check the gas is heavier or lower than air, LPG is heavier than the air, natural gas and manufactured gas are lower than the air.

2. According to the gas weight to install the detector in a suitable places.

When detecting the gas is heavier than the air, install on higher 0.3-1.0 M above the ground, from the gas source within the radius of 1M.

When detecting the gas is lower than the air, install on lower 0.3-1.0 M below the ceiling, from the gas source within the radius of 1.5M.

3. Do not install the detector in oil fume, water vapor places. Do not install the detector close to the air-vent, door and window surroundings. and bathrooms.



### Product operations

1. When detector sensing the alarm situations, the buzzer will sound and alarm.
2. Install the detector in suitable place and connect to the battery, green LED light on, and it will enter into the working status after 3 minutes warm-up period.

### Product testing

After installing the detector, you can use the lighter to ignite in different method and leak some gas in the distance of the 5cm gas convection window. To detect the alarm function or stability of system networking testing. Please note do not use excessive gas to test. In case reduce the sensibility of the detector. When combustible gas concentration lower than the certain standard. The detector stop to send the alarm signals and get back to the monitoring status.

### Alarm treatment

When the combustible gas concentration in the air over to or exceed to the alarm preset concentration, detector continue to alarm. You should make below treatment.

1. Closed the pipeline valve.
2. Open the window to make indoor air circulation
3. Blank off all the fire source, cut off all the commodities can produce sparks
4. Do not use the switch or power source
5. Check the gas leak and notify related department and specialized people.

### Notice

1. It will occurs false alarm when the circuit is instability.
2. Please make the product maintenance according to the manual indicated.
3. It must make the test working every half year. Please maintain or change if it do not work.
4. It can not make everything highly secure, only can reduce the accident occurs. Please use this product in proper way, raise vigilance in dairy life and enforce the safety precaution consciousness.