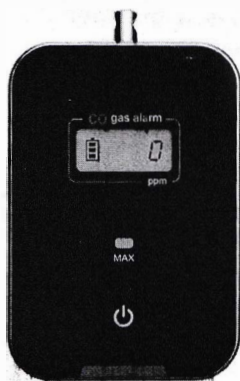


# Carbon Monoxide Gas Alarm



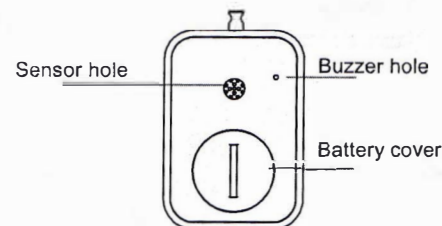
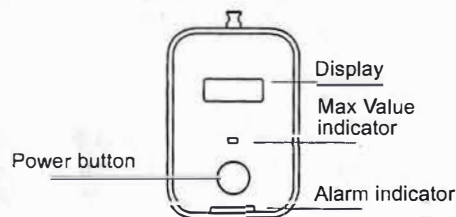
## Introduction

It is designed and developed to detect CO gas inside the vehicles. If the CO gas is higher than the alarm value, it will alarm passengers by both sound and light. Buy it to avoid health damage and stay safe and sound.

Please contact us for further information.



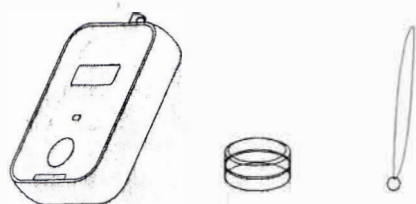
## Overview



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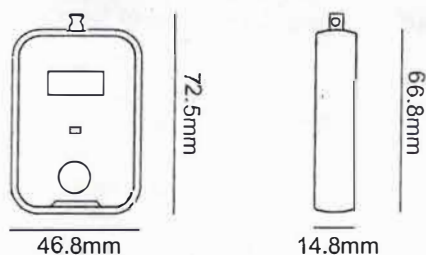
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## Packing list



CO Gas Alarm    Battery\*2    Ball-chain

## Specification



**Size:** 72.5\*46.8\*14.8mm

**Weight:** 45g (without battery), 50.8g (with battery)

**Sensor:** electrochemical sensor from Nemoto, Made in Japan, 5 years' lifetime

**Power source:** 2\*CR2032

**Lifetime of batteries:** continuously working for about 9 months

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## Recommended Placement

Stick on the vent fan grille or hang anywhere by using the ball-chain

## Attention!

Do not block the back side of this device, where lay the sensor hole and buzzer hole

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## User's Instruction

**Sound & Light indicator and Alarm Display:** Real-time show CO gas value and temperature

### Alarm

Once CO gas concentration is over standard, it will alarm by both sound and light: Alarm level depends on CO gas concentration in the air.

### Alarm Level

CO concentration (ppm)	Alarm
0-8	No alarm: show real-time gas concentration
9-24	Alarm Level I : show real-time gas concentration; red light flashes after the accumulation of 1 minute

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25-49	Alarm Level II : show real-time gas concentration; red light flashes; buzzer sounds "Du dudu" after the accumulation of 1 minute
≥50	Alarm Level III : show real-time gas concentration; red light flashes rapidly; buzzer sounds rapidly

### High temperature alarm:

When temperature goes above 50 C, it will display "---" and won't work until the temperature drops.

**Low battery alarm:** once low battery, buzzer will sound "du du" to alarm you every 30 seconds.

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## Functions of Power button

1. Long press Power button for 3 seconds to activate or shut down this device. The warming up period will take 3 minutes with display showing "CAL"
2. Short press Power button, the MAX value will be showed from period of power-on to present time (record will be cleared when device is shut down)

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**Display:** display CO concentration and battery power

**LED indicator:** Blue power supply light and Red alarm light

**Buzzer:** sound alarm, 70dB at 1meter

**Static working state current:** < 30uA

**alarm state current:** < 6mA

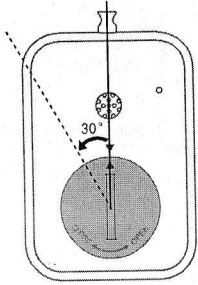
**working temperature:** -10 C - 60 C

**working humidity:** 10%—90%RH

## Notice

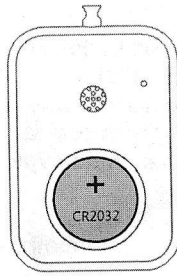
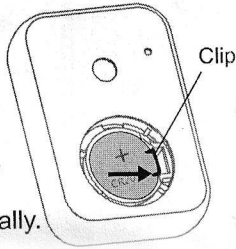
1. Do not change the program inside, or disassemble the alarm.
2. Do not place the alarm in drawers or corners.
3. Please change a new device, after 5 years' lifetime.

## Change the batteries



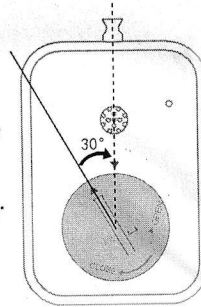
1. Use a coin (e.g. 1 dollar coin) to rotate 30°CCW, and then remove the battery cover.

2. Push clip following the direction of arrow, so the battery will pop up automatically.



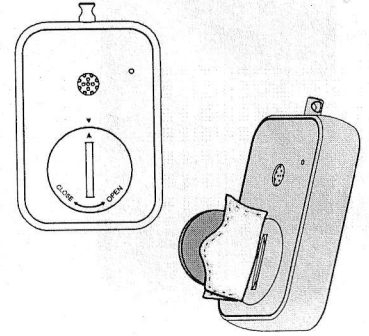
3. When install new batteries, please make sure the battery cathode toward the outside.

4. Rotate 30°CW to return it to the initial position.



## Attention !

To avoid scratches on the surface, please put a piece of cloth or tissue between the coin and the battery cover.



## About CO (carbon monoxide)

CO inside the vehicle is mainly from the exhaust gas when the engine is running. When engine is raged in idling state, the burning is inefficient, the CO concentration will be increased; if the air conditioner is turned on when the car is parked with windows closed, air in the car can only convect through air conditioner, then CO gas generated by the engine will flow inside the car through air condition system, CO will accumulate more and more, human will be poisoned unconsciously. So it is very necessary to equip a carbon monoxide alarm in your car .

## Concentrations of carbon monoxide and possible symptoms of healthy adults

Concentration of carbon monoxide in air	Approx. Inhaled time and symptoms may appear
24ppm (30mg/m <sup>3</sup> )	Cause dizzy after 64 hours
50ppm (62.5mg/m <sup>3</sup> )	Cause dizzy after 32 hours
100ppm (125mg/m <sup>3</sup> )	Cause dizzy after 16 hours
200ppm (250mg/m <sup>3</sup> )	After 2-3 hours, slight headache, fatigue, vertigo, nausea
400ppm (500mg/m <sup>3</sup> )	In 1-2hours, headache; after 3hours, threaten life
800ppm (1000mg/m <sup>3</sup> )	Cause vertigo, nausea, cramps within 45 minutes, lost consciousness within 2 hours, death within 2-3 hours

Attention: Above poisoning symptoms are meant for healthy adults, while for high risk and vulnerable people, or pregnant women, the consequence is quite different.

## Kindly Reminder

1. Detection accuracy of the alarm is influenced by factors like device itself, temperature, humidity of install environment, etc. For installation, recommended proper temperature is 20 C (±5 C); Relative humidity is 50%.
2. Keep the alarm away from electromagnetic interference which caused by cell phones or other electrical appliances.
3. Do not put the alarm in circumstances with relative humidity over 80%.
4. Keep the device away from corrosive or negative material and do not put it in high co concentration environment all the time, it will shorten its lifetime.