

Smart Carbon Monoxide Sensor User Manual

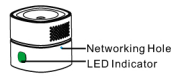
M417-10Ever1.2



* Please read the user manual carefully before operation.
The guide picture is for reference only, please in kind prevail

Product Introduction

This product is a smart carbon monoxide sensor, adopts super low power consumption Z-wave wireless networking technology, used for detecting carbon monoxide. Sensor adopts high performance electrochemical sensor, support sound and flash alarm, It has high stability, super low power consumption, little sensitivity drift and many other features. Free installation design, support instant bonding.



Sensor



Installation Base

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- Technical Data
1. Working Voltage : DC3V(CR123A Lithium Battery)
 2. Static Current : $\leq 20\mu\text{A}$
 3. Alarm Current : $\leq 60\text{mA}$
 4. Alarm Sound : 85dB/1m
 5. Alarm Sensitivity : 30ppm 120mins alarm
50ppm 60-90mins alarm
100ppm 10-40mins alarm
300ppm 3mins alarm
 6. Networking : Z-wave Ad-Hoc Networking
 7. Wireless Networking Distance : $\geq 70\text{m}$ (open area)
 8. Working Temperature : $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
 9. Environment Humidity : $\leq 95\% \text{RH}$
 10. Dimension : 60*60*49.2mm

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Tips

1. This product can not be used for detecting natural gas(methane), propane, butane and other combustible gas.
2. Clean once a month, users may use household vacuum cleaner and soft brush when cleaning.
3. Do not use cleanser or solvent type sensors, please avoid spraying air freshener, hair spray, oil paint or other aerosol near sensors.
4. Effective working life span is 5 years, suggest replace every 5 years no matter there is fault or not. (Battery life span is 3 years).
5. Please be attention when alarm happens. Shut-off valves immediately, opening the window, make sure indoor airiness. Besides using sensors correctly, users should strengthen the consciousness of fire protection.

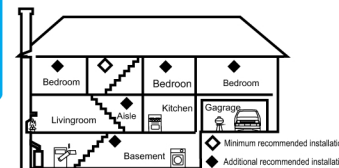
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- Installation Instruction
1. Install the sensor in bedroom and living area or anywhere CO may leak, make sure each sleeping area can hear sound alarm when choose installation position.
 2. Avoid suppressing or falling down sensors, keep sensors away from humid, high voltage, strong magnetic and children.
 3. Do not suggest install sensors in garage, kitchen, boiler and places where sensor may false alarm. Do not install in dirty, dusty or greasy places, oily, dust or household chemicals may damage internal sensor, and make sensor can not work normally.
 4. Sensors can support wall mounted or placing on the table, household and travel essential.

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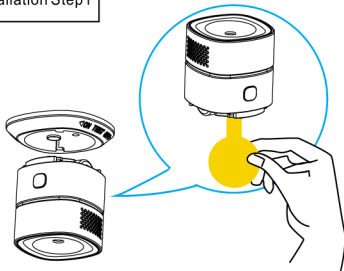
Installation Drawing

To increase safety factors in single-layer house, suggest to install at least a sensor in each bedroom and install a sensor at 6m from chimney and gas fixture.
To increase safety factors in multi-layer house, suggest to install at least one sensor in each bedroom, install at least one sensor in basement. Please install a sensor at 6m from chimney and gas fixture.



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Installation Step1



- Anticlockwise rotating the bracket out from the installation base, then remove the battery insulating strip to make detector on power.

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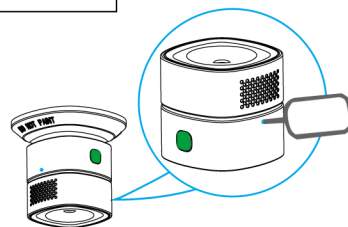
Installation Step2



- Click "Add Device" on the APP interface, and enter the networking mode.

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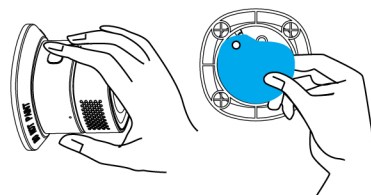
Installation Step3



- According to APP prompt, press the networking button 3 times in 1.5 seconds until green light flash, (the longest networking time is 30 seconds) APP interface prompted, networking success.
- Select device, click "delete" on APP, then press the networking button 3 times in 1.5 seconds until the green light flashes slowly for 6 times, which indicates network is disconnected successfully

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Installation Step4



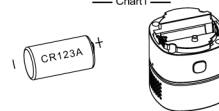
- Screw the sensor into bracket, please remove the double-sided adhesive membrane on the installation base, and stick on the wall.

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Status and battery replacement

Status	LED Indicator	Alarm
Test	Green-red-yellow-green LED flash alternatively once	4 beeps
Preheating	Green, red and yellow LED flash alternatively once	1 beep
Alarm	Red LED flash	4 beeps
Malfunction	Yellow LED flash twice every 10 seconds	2 beeps every 10 seconds
Low battery	Green LED flash every 53 seconds	1 beep every 53 seconds
Normal working	Red LED flash every 53 seconds	1
Expired sensor	Yellow LED flash twice	4 beeps every 10 seconds

Chart1



*Please replace battery correctly, following the battery positive and negative electrode.

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Troubleshooting and test

- Please take following advices for reference if sensors can not work normally:
1. Replace battery in time, if voltage too low and reach effective life span. (Check table 1 for state reference)
 2. Please clean sensor if the fault resulted from dust or oil stain (Check table 1for state reference).
 3. Make sure sensors screw into the base correctly.



Press test button on the product for 3 seconds, shows in above picture, till alarm happens (check table 1 for state reference). Suggest test sensor at least once a week. Please pay attention once alarm happens.

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