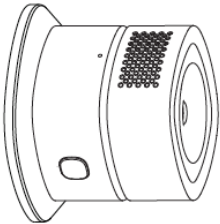


Carbon Monoxide Alarm
User Manual

M419-SEver1.2



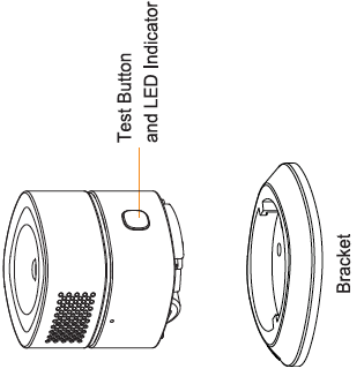
*Please read the user's manual carefully before operation.
The illustrations in the manual are only for your reference, please in kind prevail.

1 Product Introduction

This mini carbon monoxide alarm adopts high performance electrochemical sensor and low power consumption technology. Used for detecting carbon monoxide, support sound and flash alarm. Features: High stability, little sensitivity drift, easy installation design, support instant bonding.

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2 Product Details



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3 Technical Data

1. Working Voltage: DC3V (CR17335/CR123A Lithium Battery)
2. Siren Output: $\geq 85\text{dB}/1\text{m}$
3. Alarm Sensitivity: 30ppm 120 mins alarm
50ppm 60-90 mins alarm
100ppm 10-40 mins alarm
300ppm 3mins alarm
4. Working Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
5. Working Humidity: $\leq 95\%\text{RH}$
6. Dimension: 60*60*49.2mm

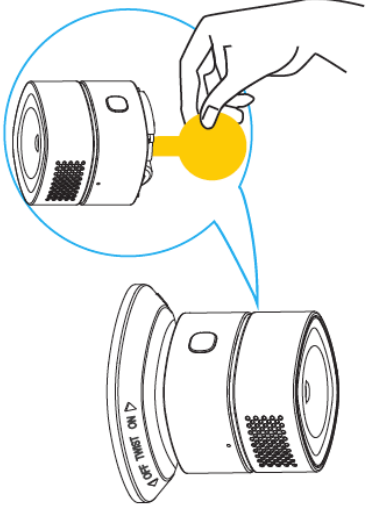
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4 Tips 1.This product can not detect natural gas, methane, propane, butane and other combustible gas. 2.Please keep alarm clean, do not let dust and greasy dirt accumulate on it. It is suggested to clean it every 6 months with household vacuum cleaner and soft brush. 3.Do not use detergent or other liquids to clean this detector. Do not spray air freshener, fixture, oil paint or other aerosols around this detector. 4.The Lifespan of the alarm is 10 years. Please replace this alarm 10 years later even if it can work. (Battery Lifespan is 10 years). 5.Please pay attention to it when alarm occurs. Shut off valves of carbon monoxide immediately. Open the windows to allow the air to circulate. Besides correct use of carbon monoxide detector. We should also strengthen the safety awareness.	5 Installation Instruction 1.Install the carbon monoxide alarm in bedrooms, living quarters and places where carbon monoxide may leak. When alarm occurs, make sure all family members could hear it. 2.Do not put heavy staff on the this alarm, do not drop it from high places. Keep the alarm away from humid places, high electric voltage and strong magnetic fields. Keep the alarm away from children. 3.Do not install the co alarm in kitchen, garage, boiler rooms etc. It is easy to cause false alarm. Do not install the co alarm in dusty, dirty and greasy places. It is easy to damage the sensor in the co alarm, as a result alarm can not work properly. 4.Support wall mounted and ceiling mounted installation. You could also put it on the table.	6 Installation Drawing ◇ Co alarms for limited protection ◆ Additional Co alarms for better coverage	FEATURES ● Advanced electrochemical CO sensor technology ● Digital temperature compensation technology ● Low battery warning ● Anti-RF Interference ● Battery locking feature, more secure
			4 5 6 7

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- The most common sources of CO are malfunctioning, or misuse of gas appliances used for heating and cooking, vehicles engines, electric generators, blocked chimneys or flues, portable fuel burning heaters, fireplaces, fuel powered tools and operating a grill in an enclosed space.
- Indications of CO poisoning include symptoms similar to the flu, but with no fever. Other symptoms include dizziness, fatigue, weakness, headache, nausea, vomiting, sleepiness and confusion. Everyone is susceptible to the danger of CO, but unborn babies, small children, pregnant women, senior citizens and people with heart or respiratory problems may experience symptoms sooner. Each year a qualified technician should inspect and clean your heating system, vents, chimney, and flues.

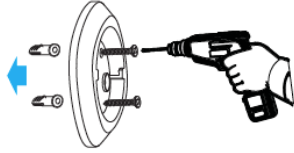
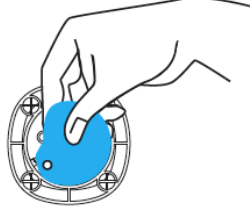
Installation Step 1



- Rotate the alarm anticlockwise to separate from bracket, then remove battery insulating strip to electrify the alarm.

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Installation Step 2



- Step 1: remove the double-sided adhesive and stick alarm into ceiling.
- Step 2: fixed the bracket into ceiling using screws.

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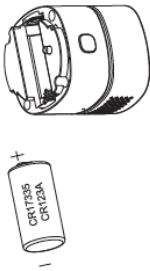
7 LED Status

Status	LED Indicator	Alarm
Warm-up	Power on the alarm, about 6 seconds later, the green/red/yellow LEDs will flash alternately.	Power on the alarm, after about 6 seconds, the buzzer will beep once shortly.
Normal	The green LED flashes every 30 seconds.	None
Testing	Red LED flashes four times	The alarm sounds four beeps
Alarm	Red LED flashes every 5 seconds.	Four beeps every 5 seconds.
Low Power	Yellow LED flashes every 30 seconds.	One beep every 30 seconds.
Fault	Yellow LED flashes twice every 30 seconds.	Two beeps every 30 seconds
End of unit life	Yellow LED flashes twice every 30 seconds.	One long beep and one short beep every 30 seconds.

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8 Battery Replacement

CARBON MONOXIDE CONCENTRATION AND RESPONSE TIME		
Concentration, ppm	Response time, minutes	
30 ppm	120 minutes	
50 ppm	60-90 minutes	
100 ppm	10-40 minutes	
300 ppm	3 minutes	



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9 Test



Press and release the test button to test the alarm. The alarm will sound 4 beeps (Refer to form 1). It means the CO alarm can work normally. The alarm may stop sounding once releasing the test button. It is suggested to test the CO alarm at least one time every week. Please pay attention once alarm happens.

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Statement
*Instruction is for reference only, please prevail in kind.
*Because of the updating of the technology, the final interpretation right owned by factory, if there are any inconformities when using this products under this instruction.

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