

 Act in Advance 深圳市安室智能有限公司	料号	F800004000173	版本号	V1.0
	品名	XCOM-iR 说明书_美规	设计师	罗敏
	材质	70g 书纸	时间码	2025111101
	工艺	单黑印刷, 骑马钉		
	尺寸	130x70mm		
	公差	± 1mm		

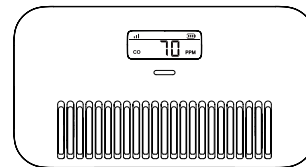
备注：此页无需印刷



Scan the QR code to view the product model.

X-Sense Electronics Co., Ltd.
Email: support@x-sense.com

X-SENSE |  **Wi-Fi**



XCOM-iR

User Manual

Carbon Monoxide Alarm

Replaceable Battery/Voice and Location

F800004000173 V1.0

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This user manual contains important information regarding the installation and operation of your carbon monoxide alarm. Please take a few minutes to thoroughly read this manual, which should be saved for future reference. If you are installing the carbon monoxide alarm for use by others, you must leave this manual—or a copy of it—with the end user.

1 Introduction

This device is a battery-powered Wi-Fi CO (carbon monoxide) alarm with an advanced electrochemical sensor for domestic use. It comes with a built-in voice function that provides accurate information feedback.

Please note that this carbon monoxide alarm is designed to detect carbon monoxide gas from any combustion source. This device does not detect smoke, heat, flames, or any hazardous gas other than carbon monoxide, even though carbon monoxide can be generated by fire. For this reason, you must install smoke alarms to provide early warning of fire and to protect you and your family from fire and its related hazards.

WARNING

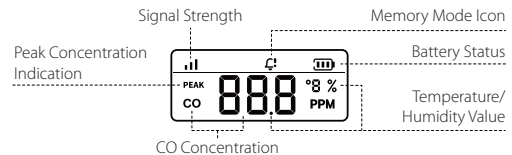
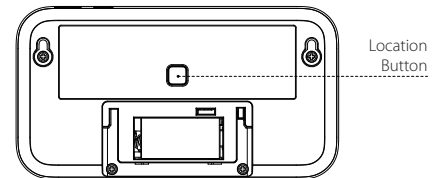
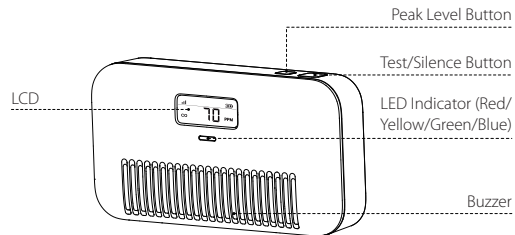
1. CAUTION: READ THE INSTRUCTIONS CAREFULLY BEFORE OPERATING OR SERVICING.
2. THE INSTALLATION OF THE APPARATUS SHOULD NOT BE USED AS A SUBSTITUTE FOR PROPER INSTALLATION, USE, AND MAINTENANCE OF FUEL-BURNING APPLIANCES, INCLUDING

- APPROPRIATE VENTILATION AND EXHAUST SYSTEMS.
3. THIS APPARATUS SHOULD BE INSTALLED BY QUALIFIED PERSONNEL.
 4. IT IS NOT TESTED FOR USE IN A CARAVAN OR BOAT.
 5. THIS PRODUCT IS INTENDED FOR USE IN ORDINARY INDOOR LOCATIONS OF FAMILY LIVING UNITS. IT IS NOT DESIGNED TO MEASURE COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) COMMERCIAL OR INDUSTRIAL STANDARDS.

CAUTION

This alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

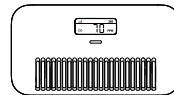
1.1 Product Overview



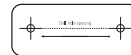
1.2 Technical Specifications

Power Supply	3 V (---) CR123A lithium battery x 1 (replaceable)
Battery Life	1 year (test once a week)
Maximum Service Life	10 years
Sensor Type	CO: Electrochemical
CO Alarm Response Time	70 ppm: 60-240 minutes
	150 ppm: 10-50 minutes
	400 ppm: 4-15minutes
Operating Temperature	40-100°F (4.4-37.8 °C)
Operating Relative Humidity	10%-85% RH (non-condensing)
Storage and Transport	This apparatus should be stored at 40–100°F (4.4–37.8°C), 5%-95% RH (non-condensing)
Alarm Noise Level	≥ 85 dB at 10 ft (3 m) @ 3.2 ± 0.3 kHz pulsing alarm
Silence Duration	≤ 9 minutes
Band	2400–2483.5 MHz
Temperature Accuracy	±0.9°F (0.5°C)
Humidity Accuracy	5%

1.3 Package Contents



CO Alarm



Drill Hole Spacing
Indicator Label



CR123A Battery
(Pre-installed)



User Manual



Anchor Plugs



Screws



Warranty Card



Carbon Monoxide
Safety Stickers

1.4 CO Concentration and Symptoms

The following symptoms are related to **CARBON MONOXIDE POISONING** and are to be discussed with **ALL** members of the household:

Levels of Exposure	Symptoms
Mild Exposure	Slight headache, nausea, vomiting, fatigue (often described as “flu-like” symptoms).
Medium Exposure	Severe throbbing headache, drowsiness, confusion, and fast heart rate.
Extreme Exposure	Unconsciousness, convulsions, cardio-respiratory failure, death.

WARNING

1. THIS APPARATUS IS DESIGNED TO PROTECT INDIVIDUALS FROM THE ACUTE EFFECTS OF CARBON MONOXIDE EXPOSURE. IT WILL NOT FULLY SAFEGUARD INDIVIDUALS WITH SPECIFIC MEDICAL CONDITIONS. IF IN DOUBT, CONSULT A MEDICAL PRACTITIONER.
2. MANY CASES OF REPORTED CARBON MONOXIDE POISONING INDICATE THAT WHILE VICTIMS ARE AWARE THEY ARE NOT WELL, THEY BECOME SO DISORIENTED THAT THEY ARE UNABLE

TO SAVE THEMSELVES BY EITHER EXITING THE BUILDING OR CALLING FOR ASSISTANCE. YOUNG CHILDREN AND HOUSEHOLD PETS ARE TYPICALLY THE FIRST AFFECTED.

1.5 What to Do When the Alarm Sounds

WARNING

Actuation of your CO alarm indicates the presence of carbon monoxide (CO), which can KILL YOU. If alarm signal sounds:

1. Operate test/silence button;
2. Call your emergency services [fire department or 911];
3. Immediately move to fresh air-outdoors or by an open door/window. Do a head count to check that all persons are accounted for. Do not reenter the premises nor move away from the open door/window until the emergency services responders

have arrived, the premises have been aired out, and your alarm remains in its normal condition;

4. After following steps 1-3, if your alarm reactivates within 24 hours, repeat steps 1-3 and call a qualified appliance technician to investigate sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection, have the equipment serviced immediately. Note any combustion equipment not inspected by the technician and consult the manufacturer's instructions, or contact the manufacturer directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not operating in an attached garage or adjacent to the residence.

1.6 More Detailed Information on Conditions Which Can Result in Transient CO Situations, Such as:

1. Excessive spillage or reverse venting of fuel-burning appliances caused by:
 - a. Outdoor ambient conditions such as wind direction and/or velocity, including high gusts of wind; heavy air in the vent pipes (cold/humid air with extended periods between cycles).
 - b. Negative pressure differential resulting from the use of exhaust fans.
 - c. Simultaneous operation of several fuel-burning appliances competing for limited internal air.
 - d. Vent pipe connection vibrating loose from clothes dryers, furnaces, or water heaters.
 - e. Obstructions in unconventional vent pipe designs amplify the above situations.
2. Extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.).
3. Temperature inversions, which can trap exhaust gases near the ground.
4. Car idling in an open or closed attached garage, or near a home.

2 How to Connect

2.1 APP Download

Download the X-SENSE Home Security App



To download the app, search for “X-SENSE Home Security” in the Apple App Store or Google Play, or simply scan the QR code. Create an account using a valid email address. If you already have an account, make sure it is updated to the latest version.

NOTE: Make sure your smartphone supports iOS 11 and higher, or Android 8.0 and higher.

2.2 APP Features

Notifications: You will receive push notifications on the app for alarms, danger cleared, low battery, device malfunction, end of life, etc.

NOTE: You can choose to receive app push notifications when any change is made to your system. It is highly recommended that you limit push notifications, as too many notifications can become redundant and overload your phone, which can quickly become a nuisance.

Furthermore, the more push notifications you allow, the more power your alarm will consume, which will reduce battery life.

Night Mode: You can activate the night mode and set a specific time period during which the LED light will not illuminate periodically to

avoid disturbing your sleep. The new settings will take effect within 11 hours by default, or you can double-press the test/silence button to immediately synchronize the settings.

Temperature and Humidity History: You can check the historical data line chart of temperature and humidity via the app.

Device Sharing: You can share the device with your family members and friends. They will receive app push notifications for alarms and have the ability to silence the device, view historical events, etc.

Record History: You can view the device’s notification history through the app.

Offline Notifications: Offline notifications are used to notify you if the alarm disconnects from the Wi-Fi. Note that this notification may not be sent instantly, as the alarm reports to the cloud service center at set intervals.

CO Alarm Precaution: Dangerous CO concentration is detected, but has not reached the alarm status. The app will show a “CO Alarm Precaution” message, and an app push notification will be sent to your smartphone. Potentially dangerous CO conditions exist.

2.3 Wi-Fi Pairing Preparations

Before connecting devices, make sure that:

1. You know your Wi-Fi network name and password.
2. You are connecting your device using a 2.4 GHz Wi-Fi network (incompatible with a 5 GHz Wi-Fi network).
3. Make sure the Bluetooth on your phone is turned on.

NOTE: When the device is configured via Wi-Fi, make sure your mobile phone and devices are as close to the router as possible, which can speed up device configuration.

2.4 Power-On Instruction

To Activate the Device

Before use, pull out the battery insulating film from the battery compartment to power on the device. After the device is turned on, it will emit one beep, and the LED indicator will flash through two cycles (red/yellow/green/blue), then play the voice message “Hello from

X-Sense.” If the device has not been set to a location, it will announce “Location not set. Press the Location button to select a location,” to remind you to set a location.

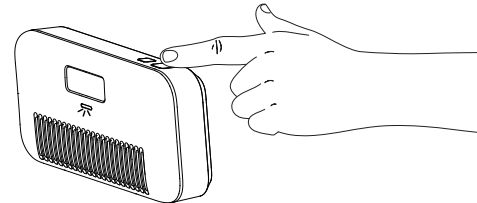
If the device already has a location set, it will announce “Press the Test/Silence button to test,” to prompt you to perform a test. The device will then enter standby mode.

Additional Information: If the device has been connected to a network before, after replacing the battery, the LED indicator will still flash through two cycles (red/yellow/green/blue), followed by the LED flashing blue rapidly (connecting to Wi-Fi).

2.5 Network Setup Steps

1. Tap “⊕” in the top right corner of the app homepage, select “Carbon Monoxide Alarms”, then select “Wi-Fi CO Alarms (Standalone, working without Base Station)”. Then select “XC0M-iR”.
2. Enter a name for the alarm. Select the home you created or create a new home for the alarm, then select the room in which it is installed. If you create a new home, you will need to enter a name and select the country or region in which you live. After selecting the room, tap “Next” to add a device.
3. Remove the insulating film to power up the alarm.
4. Press and hold the test/silence button on the alarm for 5 seconds until it flashes blue. Before the light goes off, immediately tap “Operation Confirmed”, then tap “Next”; otherwise, you need to repeat the step to make the LED indicator flash blue.

NOTE: If your mobile phone finds two or more devices waiting to connect to the network, you need to tap to select the corresponding device you want to add.



5. Connect to a 2.4 GHz Wi-Fi network and make sure you enter the correct password. Then, the alarm will enter the pairing process. Make sure the LED indicator is still flashing blue, or else you need to press it to make the LED indicator flash blue again.
6. When finished, you will see the Wi-Fi CO alarm on the app's device list.

NOTES:

1. If your router supports a dual-band network with both 2.4 GHz and 5 GHz, please create separate SSIDs for the 2.4 GHz and 5 GHz channels. This device is only compatible with a 2.4 GHz Wi-Fi network.
2. To promote a successful Wi-Fi connection, make sure you place the alarm within the router range and that you enter the correct password.

2.6 Exit the Network

Quickly press the Test/Silence button 4 times. The alarm will say “Searching for a new device”, it will beep once, and the LED will flash blue slowly. Then, hold down the button until it says “Disconnected, standalone device now.” The LED will flash green and beep once more to disconnect. After disconnecting, it can be reconnected to the same network or added to a new network.

NOTE: If you quickly press the test button while the LED indicator is slowly flashing blue, the device will announce the voice message “Connection failed. Please try it again,” and then return to standby mode.

3 Location Settings

3.1 Powering on Before Setting the Location

Please power up the device according to section “2.4 Power-On Instruction”.

3.2 Setting the Location

Please follow the steps below to set the device location so that it is accurate to the actual installation location.

1. After the device is powered on and the voice is finished, press the Location button. If the location has not been set, the device will say “Location not set. Press the Location button again to select a location.” If the location has been set, the device will say “**Location** set. Press the Location button again to change the set location.”
2. After step 1, press the Location button again. The device will say, “Press the Location button for the next location. Quickly press the Location button twice for the last location. Hold down the Location button to save the location.”
3. After step 2, press the Location button again. The device will say “Entryway.”
4. After entering the location list, press the location button for the next location. Quickly press the Location button twice for the last location. Hold down the Location button to save the location.
5. The location list will be repeated. When the device says, “No location.” Press the location button again, and “Entryway” will be reported again.
6. When the location is saved, the device will say “**Location** saved.”
7. There is a 1-minute timeout limit when the product is in setting mode. If there is no operation within 1 minute, it will automatically exit and return to standby mode and will say “Unable to set the location. Please try it again.”

Location List

1	Entryway	10	Den
2	Basement	11	Family room
3	Living room	12	Study
4	Dining room	13	Office
5	Kitchen	14	Workshop
6	Hallway	15	Utility room
7	Master bedroom	16	Attic
8	Kid’s room	17	No location
9	Guest room		

4 How to Install

4.1 Where to Install

Ideally, a carbon monoxide alarm should be installed in every room containing a fuel-burning appliance, and one in every bedroom. However, if the number of carbon monoxide alarms available is limited, the following guidelines should be considered when choosing the best places to install an alarm(s):

1. If there is a fuel-burning appliance in a bedroom, a CO monitor should be installed.
2. Install an alarm in rooms containing a flueless or open-flued appliance.
3. Install an alarm where residents spend most of their time.
4. In a studio apartment, a CO alarm should be placed as far away from the cooking appliances as possible, but close to where the person

sleeps.

5. If the appliance is in a room not normally used (such as a boiler room), the CO alarm should be placed just outside of this room so that the alarm can be heard more easily.

4.2 Improper Location to Install

Improper location can affect the sensitive electronic components in this alarm. To avoid causing damage to the unit, to provide optimum performance, and to prevent unnecessary nuisance alarms, **do not locate CO alarms** in the following areas:

1. In garages or in any extremely dusty, dirty, or greasy areas.
2. Where there is the possibility of smoke or fumes under normal operating circumstances.
3. In poorly ventilated kitchens, garages, and furnace rooms. Keep the CO alarms at least 5 feet (1.5 m) from potential smoke or fume sources (e.g., stoves, furnaces, water heaters, space heaters) if possible.
4. In areas where a 5 feet (1.5 m) distance from a potential smoke or fume source is not possible. In modular, mobile, or smaller houses, it is recommended that the CO alarm be placed as far from any potential smoke or fume sources.
5. Within 5 feet (1.5 m) of any cooking appliance.
6. In extremely humid areas. This alarm should be at least 10 feet (3 m) from a bath or shower, sauna, humidifier, vaporizer, dishwasher, laundry room, utility room, or other source of high humidity.
7. In areas where the temperature is colder than 40°F (4.4°C) or hotter than 100°F (37.8°C). For example, non-air-conditioned crawl spaces, unfinished attics, uninsulated or poorly insulated ceilings, porches, and garages.
8. Where the air is turbulent, such as near ceiling fans, heat vents, air conditioner vents, fresh air return vents, or open windows. Excessive air flow may prevent any CO from reaching the sensors.
9. In direct sunlight.

4.3 Specific Location of Installation

Installing a CO alarm in a room with a fuel-burning appliance (see Figure 1):

1. If it is mounted on a wall, it should be installed at a height greater than the height of any door or window but should still be at least 5.9 inches (150 mm) below the ceiling.
2. The CO alarm should have a horizontal distance between 3.3 feet (1 m) and 10 feet (3 m) from any potential CO source.
3. If there is a partition in the room, the CO alarm should be installed on the same side of the partition as the potential CO source.

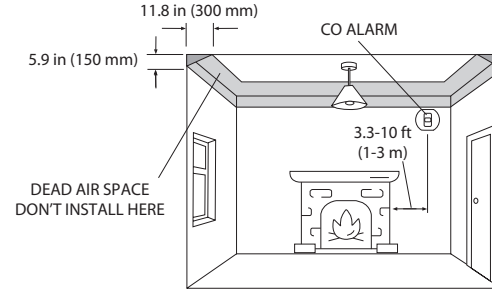


Figure 1: Installation in a room with a fuel-burning appliance

Installing the CO alarm in a bedroom or room without a fuel-burning appliance (see Figure 2):

1. Mount the CO alarm relatively close to the breathing zone of the occupant.
2. Install the alarm such that the LED indicator is viewable when the occupant is near the alarm.

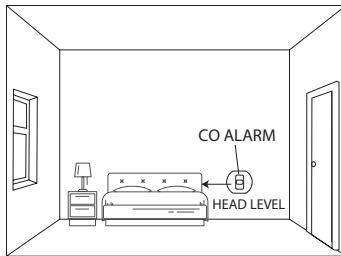


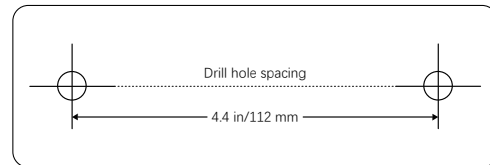
Figure 2: Installation in a bedroom or room without a fuel-burning appliance (installed at head level)

NOTE: Due to the product's unique design and unfixed installation, it is not recommended to install it on a ceiling, as it is prone to falling off and causing injuries to people.

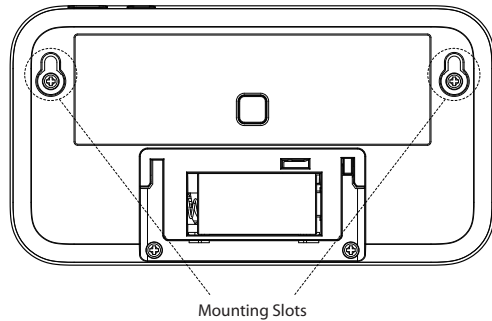
4.4 Installation Instructions

Wall Mounting

1. Choose a suitable installation location by referring to the **"How to Install"** section.
2. Remove the indication sticker from the packaging and refer to the hole locations on the sticker. Draw two screw holes according to the size and layout of the mounting holes on the back of the product. Drill the screw holes 1.18 inches (30 mm) deep using a $\varnothing$ 1/4 inch (6 mm) drill bit. Note that the distance between the centers of the two holes is 4.4 inches (112 mm).



3. Insert the anchor plug into the screw hole and hammer it in until the head of the anchor plug is flush with the wall.
4. Use the two provided screws or 3.5 x 25 mm countersunk screws to screw into the two anchor plugs. Be sure to leave a 1/5 inch (5 mm) gap between the head of the anchor plugs and the screws, which will allow for easy device mounting.
5. Mount and lock the device onto the wall by aligning the two mounting slots on the back of the device with the screws on the wall.



6. Test the device by pushing the test button to make sure that the device is functioning properly.

4.5 Alarm Testing

Be sure to test your CO alarms when you turn them on for the first time or when the installation is finished. In addition to the weekly test you should perform, it is also recommended to test the alarm after returning from a long trip or vacation.

Type	XCOM-iR
Action	Push the Test/Silence button, and the LCD is lit.

Device Response	After entering test mode, the device will announce: "This is only a test. The alarm will sound loudly. You can press the Test/Silence button to cancel the test." It will first perform a carbon monoxide sensor check, announcing: "Testing the carbon monoxide sensor." 1. If a malfunction is detected, it will announce: "Caution. Carbon monoxide sensor malfunction. Replace the device now." The device will flash yellow twice every 60 seconds, pairing with beeps. The LCD will display "E04/03". 2. If no malfunction is detected, the device will flash red 4 times every 5.8 seconds, pairing with beeps. Then, it will proceed to check the battery level and product lifespan: a. If any issues are found, it will enter the corresponding mode (see detailed function descriptions). b. If everything is normal, it will announce "The test is finished. Normal working status." 3. Finally, the device will enter standby mode.
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NOTES:

1. This will only test the electronics. If the device fails to deliver an audible test signal, please refer to the **"Troubleshooting"** section.
2. During the test, you can press the Test/Silence button once to exit test mode, and the device will announce: "Test Cancelled."
3. If the device has alarm memory, the device will stay on red for 2 seconds after the self-test voice prompt and display the peak level on the LCD.
4. After the self-test is completed, you will receive a notification about the self-test results on your smartphone.

4.6 Battery Replacement

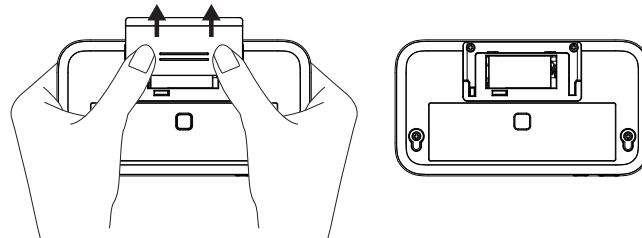
When the LCD displays the "Lb" message, the LED indicator flashes yellow once every 60 seconds and the buzzer chirps (during the first 15 minutes, only the voice announcement are active; the buzzer remains silence). Remove the old batteries and replace them with new batteries.

After replacing the battery in the device and ensuring that it is powered on successfully, the device will operate normally. For indications of battery replacement, refer to the **"Audio-Visual Display"** section.

NOTE: Rechargeable batteries are not allowed, as others may negatively impact operation.

Follow the process below to open the battery compartment cover:

Hold the alarm with both hands and put your thumbs on both ends of the battery compartment cover. Then, push the cover upwards with some force to remove it.



WARNING

1. KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF

CHILDREN.

2. In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice immediately.
3. NEVER charge a battery unless it is a rechargeable battery.
4. Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd; Ni-MH) batteries.
5. Different types of batteries or new and used old batteries are not to be mixed. Do not mix batteries of different manufacturers, capacities, or sizes.
6. Batteries must be inserted with the correct polarity. Replacement of a battery with an incorrect type can defeat the safeguard. There will be a risk of fire or explosion if a battery is

replaced with an incorrect type.

7. Test the alarm for correct operation using the test facility whenever the battery is replaced.
8. Use only batteries specified in the marking. Use of a different battery may have a detrimental effect on alarm operation.
9. CONSTANT EXPOSURE TO HIGH OR LOW TEMPERATURES OR HIGH HUMIDITY MAY REDUCE BATTERY LIFE.

5 Function Introduction

5.1 The Test/Silence Button

The test/silence button is used to test the unit's electronics and to silence the unit during an alarm.

Quickly press the test button, and the LCD is lit while the device announces, "This is only a test. The alarm will sound loudly. You can press the Test/Silence button to cancel the test," indicating that the alarm has entered the test mode. Please refer to the **"Alarm Testing"** section for further information. The alarm goes back to the standby mode after testing. At the same time, the app will receive an alarm-testing notification.

NOTE: After a test has begun, the alarm will sound, and the LED indicator will flash red. This does not indicate that CO is present. If you press the test button during an alarm state, the unit will enter the silence mode.

5.2 CO Alarm Levels and Alarm Mode

CO Alarm Levels

This X-SENSE carbon monoxide alarm is programmed to sound an alarm at the following CO concentrations within the periods listed:

**70 ppm for 60–240 minutes,
150 ppm for 10–50 minutes,
400 ppm for 4–15 minutes.**

When CO is detected and the alarm sounds, the CO concentration will be displayed on the LCD, and a blue backlight will be lit. The LED indicator will flash red, and the alarm will issue 4 short beeps, repeating the cycle every 5.8 seconds.

Alarm Mode

When the device detects CO and the CO ppm reaches a certain level for a period of time, it will trigger an alarm, sounding 4 beeps every 5.8 seconds, and the LED will flash red, accompanied by the voice message: "Warning. Carbon monoxide detected in **Location**. Move to fresh air." The LCD will light up and display the real-time CO concentration.

When the carbon monoxide concentration drops below the alarm threshold, the alarm sound will stop, and it will announce "Danger cleared." Then, it will automatically enter standby mode.

NOTES:

1. The app will display a "CO Alarm Triggered" warning message.
2. After the alarm is cleared, an "Alarm Off" notification is sent once the alarm has been resolved.
3. During the first 15 minutes of an alarm (including the 15th minute), the device beeps 4 times every 5.8 seconds, and the LED will flash red; after 15 minutes, the LED and LCD backlight remain unchanged, but the buzzer interval will be extended to 60 seconds.

5.3 Peak Concentration Memory and Reset

The peak CO concentration feature helps identify if there have been any dangerous CO readings since a peak CO concentration reset. Press the Peak Level button once, and the device will perform a brief test. The LCD backlight will turn on and display the maximum value recorded since the last peak data reset. The "Peak" indicator will appear on the left side of the LCD. The peak data will be shown for 5 seconds. If no further action is taken within those 5 seconds, the device will automatically return to standby mode. In the example, 300 ppm was the maximum CO concentration recorded since the unit was last reset.



Peak CO Concentration Reset: During the 5 seconds when the LCD displays the peak CO concentration, press and hold the Peak Level button for 3 seconds. The device will beep, the LED will flash green, and the peak CO concentration will be reset with the LCD displaying "0".

NOTES:

1. If the carbon monoxide concentration is lower than 30 ppm, it will not be recorded in the peak CO concentration.
2. To show the peak value, you need to press the Peak Level button briefly (less than 3 seconds). If you press it for a long time (3 seconds or more), the peak display will not be triggered.

5.4 Memory Mode

If the device has triggered a carbon monoxide alarm, but the CO concentration has decreased and the device has automatically reset the alarm, the device will retain an alarm memory. There will be two different states depending on whether the event occurred within the last 24 hours or more than 24 hours ago.

Within 24 hours: The LED will flash red once every 5 seconds, but no alarm sound will be emitted.

After 24 hours: The device will no longer actively issue any alerts. However, if the Test/Silence Button is briefly pressed after the self-test

is completed, the LED will stay on red for 2 seconds, and the LCD will display CO peak level (this effect will not occur if the self-test is done within 24 hours).

When the device has an alarm memory, you should inspect the area where the alarm is located to identify and resolve any potential safety hazards that may have triggered the alarm, in order to prevent similar dangers from happening again. If the hazard has been resolved, or it is confirmed that the previous alarm was a false alarm, the user can press the test/silence Button on the device 3 times in succession to clear the alarm memory. Once cleared successfully, the device's LED will stay on red for 1 second, indicating that the alarm memory has been cleared.

NOTES:

1. *After the device is turned off, it will automatically clear the alarm memory.*
2. *The device only stores the most recent alarm memory; any new alarm memory will overwrite the previous record.*
3. *When there is an alarm memory, an exclamation mark icon () will also appear on the standby, peak level, low battery, and end-of-life screens.*

5.5 Silence Mode

If there is a false alarm, you can temporarily silence it by pressing the test/silence button on the device or tapping the silence button in the app. The device will say "Carbon monoxide alarm silenced." The LED will flash red 4 times every 5.8 seconds to remind you that the alarm has been silenced. The alarm will automatically exit silence mode after 9 minutes.

During silence mode, if the carbon monoxide concentration remains greater than 70 ppm after 6 minutes, the device will be triggered again; if not, the device will automatically exit the silence mode after 9 minutes.



1. Any remote silencing function can only be used within the line

of sight of the CO alarm.

2. If there is any doubt about the cause of the alarm, it should be assumed that the alarm was triggered by dangerous levels of carbon monoxide, and the residence should be evacuated.

5.6 Low-Battery Mode

The LED indicator flashes yellow once every 60 seconds. For the first 15 minutes, the device will give a verbal warning, "Caution. Low battery. Replace the battery now" every 60 seconds. After 15 minutes, the device will stop the voice alert and beep once every 60 seconds. At the same time, a low-battery notification will be sent to the phone. When the battery level is too low, the alarm cannot be silenced. If you press the test button when there is a low battery, the low battery beep will temporarily stop for 10 hours, but the LED indicator will continue to flash yellow as a reminder. When the battery is low, in order to ensure the core functions of the device, Wi-Fi-related features will be limited — including, but not limited to, reducing reporting frequency or possibly disabling the Wi-Fi function. Please replace the battery in time.

5.7 Fault Mode

When the device malfunctions, the LED indicator will flash yellow twice every 60 seconds. For the first 15 minutes, the device will give a verbal warning: "Caution. Carbon monoxide sensor malfunction. Replace the device now." After 15 minutes, the device will stop the voice alert and beep twice every 60 seconds. The fault mode cannot be silenced. At the same time, a malfunction notification will be sent to the phone.

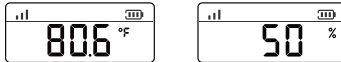
5.8 End-of-Life Mode

When the device reaches its end of life, the LED indicator will flash yellow 3 times every 60 seconds. For the first 15 minutes, the device will give a verbal warning, "Caution. The alarm has reached the end of its lifetime. Replace the device now." After 15 minutes, the device will turn on the voice alert and beep 3 times every 60 seconds. This end-of-life signal can be temporarily silenced for 22 hours by pressing the test button.

The end-of-life silence feature can only be used for a total of 30 days. After 30 days, the end-of-life signal cannot be silenced. At the same time, an end-of-life notification will be sent to the phone.

5.9 Temperature and Humidity Monitoring

When the CO concentration is below 30 ppm (< 30 ppm), the LCD will scroll to display the value of CO concentration, temperature, and humidity in sequence. Each parameter is shown with a 10-second interval before switching. When the CO concentration is 30 ppm or higher (≥ 30 ppm), the LCD will stop scrolling and only display the specific value of the CO concentration.



NOTES:

1. In the standby mode, double-pressing the Peak Level button can switch the temperature units.
2. You can check the historical line chart of temperature/humidity via the app.

6 Daily Maintenance

To keep your alarm in good working order, you should adhere to the following steps:

1. Test the alarm once a week by pressing the test/silence button.
2. Vacuum the alarm cover once every three months to remove any accumulated dust.
3. Never use detergents or solvents to clean the alarm. Chemicals can permanently damage or temporarily contaminate the sensor.
4. Avoid spraying air fresheners, hair spray, paint, or other aerosols near the alarm.
5. Do not paint the unit. Paint may clog the openings to the sensing chamber and prevent the unit from operating properly.

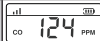
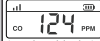
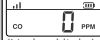
 **WARNING: DO NOT TAMPER WITH THE APPARATUS, AS THERE IS A RISK OF ELECTRIC SHOCK OR MALFUNCTION.**

7 Audio-Visual Display

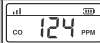
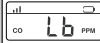
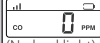
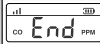
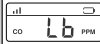
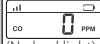
Mode	LCD Display	LED Indicator	Buzzer	Voice Guide		Remarks
Powering On	--- (Backlight on)	Runs through 2 cycles (red/ yellow/green/ blue) in sequence.	1 beep.	"Hello from X-Sense."		Remove the battery insulating film from the battery compartment to turn on the device. When the LED stops flashing, the voice guide will give instructions.
				First-time use.	"Location not set. Press the Location button to select a location."	
				The battery is replaced.	"Press the Test/ Silence button to test."	
Setting Location	/	Flashes red once every 3 seconds.	None.	Location not set.	"Location not set. Press the Location button again to select a location."	Press down the Location Button. After the voice guide has ended, the LED will flash red every 3 seconds to indicate that the device is currently in the location setting mode, and the LED will continue to flash until it returns to standby mode.

					Location set.	" Location set. Press the Location button again to change the set location."	
Pairing Mode	Start pairing	CO 0 PPM (Backlight on)	Continues to flash blue rapidly.	One beep.	Ready to connect.	"Ready to connect."	In pairing mode, if you press the test button, the device will announce: "Connection failed. Please try it again", and then exit pairing mode, returning to standby mode.
	Paired successfully	CO 0 PPM (Backlight on)	Flashes blue rapidly for a while and then stops.	One beep.	Connected.	"Connected."	
	Pairing failed	CO 0 PPM (Backlight on)	None.	None.	Connection failed.	"Connection failed. Please try it again."	

Standby Mode	Connected successfully	    (No backlight)	Flashes green once every 60 seconds.	None.	None.	When the CO concentration is below 30 ppm (< 30 ppm), the LCD will scroll to display the value of CO concentration, temperature, and humidity in sequence. Each parameter is shown with a 10-second interval before switching. When the CO concentration is 30 ppm or higher (≥ 30 ppm), the LCD will stop scrolling and only display the specific value of the CO concentration.
	Connection failed	    (No backlight)	Flashes green once, then flashes blue once every 60 seconds.			

Alarm Mode	 (Backlight on) Displays actual values.	A CO concentration ranging from 70 to 999 ppm has been present for a certain period. And the LED indicator flashes red 4 times every 5.8 seconds.	4 quick beeps, repeating every 5.8 seconds.	"Warning. Carbon monoxide detected in Location . Move to fresh air."	Dangerous CO concentration is detected and has reached the alarm status. Please refer to "What to Do When the Alarm Sounds" .
	 (No backlight) Displays actual values.	A CO concentration level ranging from 70 to 999 ppm has been detected, but for less than the required detection period.	None.	None.	Dangerous CO concentration is detected but has not reached the alarm status. Potentially dangerous CO conditions exist. Please locate the CO source immediately.
	 (No backlight)	None.	None.	"Danger cleared."	Alarm cancellation: when the CO concentration level drops below the alarm threshold, the alarm signal will stop.

Test Mode		Flashes red 4 times every 5.8 seconds, repeated for one cycle.	4 quick beeps every 5.8 seconds, repeated for one cycle.	"This is only a test. The alarm will sound loudly. You can press the Test/Silence button to cancel the test."	Press the test/silence button on the device.
				"Testing the carbon monoxide sensor."	
				"The test is finished."	
				"Normal working status."	Normal functioning.
				"Caution. Low battery. Replace the battery now."	Low battery.
				"Caution. The alarm has reached the end of its lifetime. Replace the device now."	End of life.
Peak Level Check	Peak level:  Clear to zero: 	None.	None.	None.	LCD backlight remains lit for 5 seconds; if the peak level button is pressed and held for more than 3 seconds during the 5-second display, the device emits a beep, the LED flashes green once, and the existing recorded data is reset to zero. The peak CO level recorded since the previous reset.

Silence Mode		Flashes red 4 times every 5.8 seconds.	None.	"Carbon monoxide alarm silenced."	CO silence mode: After 9 minutes, the unit will exit silence mode.
		Flashes yellow once every 60 seconds.	None.	"Temporarily silenced."	Silence mode during low battery: After 10 hours, the unit will exit silence mode.
					
		Flashes yellow 3 times every 60 seconds.	None.	"Temporarily silenced."	Silence mode during the end of life: After 22 hours, the unit will exit silence mode.
Low Battery	 	The LED indicator flashes yellow once every 60 seconds.	1 quick beep every 60 seconds.	"Caution. Low battery. Replace the battery now."	Replace the battery immediately.

Fault		 (No backlight)	Flashes yellow twice every 60 seconds.	2 beeps every 60 seconds.	"Caution. Carbon monoxide sensor malfunction. Replace the device now."	If the "E03/E04" message is still displayed, the unit has malfunctioned and must be replaced immediately.
End of Life		 (No backlight)	Flashes yellow 3 times every 60 seconds.	3 quick beeps every 60 seconds.	"Caution. The alarm has reached the end of its lifetime. Replace the device now."	Replace the unit immediately.
Memory Mode	Within 24 hours	 (No backlight)	Flashes red once every 5 seconds.	None.	None.	When the CO concentration is lower than the alarm threshold, the device will automatically exit the alarm mode.
	After 24 hours		Stays on red for 2 seconds.	None.	None.	Displays the peak level concentration. The memory mode is triggered via the self-test function. If there is no alarm memory, or if the alarm memory is within 24 hours, performing a self-test will

						not trigger any light indication.
	Clear the alarm memory	 (No backlight)	Stays on red for 1 second.	None.	None.	When there is an alarm memory, press the Test/Silence button 3 times consecutively to clear the memory.

8 Troubleshooting

Serial Number	PROBLEM	SOLUTION
1	The device cannot be powered on, and the LCD shows nothing.	Cause: The device isn't powering on properly. Solution: Open the battery compartment and remove the battery insulating film; if the battery runs out, please replace it.
2	After the test is completed, instead of displaying "PAS", it shows "Lb", "E03/04", or "End".	Cause: Self-test abnormal. Solution: Look at what's shown on the LCD to figure out why there's a problem. It might be because the battery is low, there's an error, or the device has reached its end of life.

3	There is no response when the test/silence button or peak level button is pressed.	Cause 1: The button is not pressed properly. Solution: Make sure the button is pressed firmly. When the button is pressed properly, you will hear beeps, or the LCD backlight will turn on. Cause 2: The Peak Level button was held down for an extended period; it only works when pressed briefly. Solution: Press the Peak Level button briefly; do not hold it down.
4	After the device detects CO, pressing the Peak Level button again still shows a concentration of "0".	Cause: When the CO concentration is below 30 ppm, it will not be recorded in the historical peak data. Solution: None.
5	The LCD no longer displays numerical values, instead showing "Lb", while the LED flashes yellow once every 60 seconds, paired with a single alarm sound.	Cause: When the battery voltage is below the threshold, the product enters low battery warning mode. Solution: Replace the battery.
6	When the battery is low, pressing the test/silence button cannot silence it.	Cause: When the battery is too low, it cannot be silenced. Solution: None.

7	The LCD no longer displays numerical values, instead showing "E03" or "E04", while the LED flashes yellow twice every 60 seconds paired with two alarm sounds.	Cause: The device malfunctions, displaying "E04" for short circuit and "E03" for open circuit. Solution: Replace the device.
8	The LCD no longer displays numerical values, instead showing "End", while the LED flashes yellow 3 times every 60 seconds paired with 3 alarm sounds.	Cause: The device has reached its end of life. Solution: Replace the device.
9	In the presence of a CO environment, the device is not triggered.	Cause 1: The CO concentration is not high, or the duration of exposure is insufficient to trigger an alarm. Solution: Ensure there is a sufficient CO concentration and maintain exposure for an adequate duration. Cause 2: The device is in a 'fault' state. Solution: Check if the corresponding error code appears on the LCD. If so, the device needs to be replaced.
10	The device shows a reading of "0" on the LCD in the presence of a CO environment.	Cause: The LCD displays 0 ppm when the CO concentration is below 30 ppm. Solution: None.

11	Unable to add the carbon monoxide alarm to the app.	Cause 1: Incorrect Wi-Fi username or password. Solution: Enter the correct Wi-Fi username and password. Cause 2: Bluetooth permissions are not enabled on the phone. Solution: Enable Bluetooth permission on the phone. Cause 3: The carbon monoxide alarm does not enter the Wi-Fi pairing mode. Solution: Press and hold the alarm's test/silence button for 5 seconds; its LED will flash blue, indicating it has entered Wi-Fi pairing mode.
12	Unable to receive app notifications.	Cause 1: The phone has disabled the app's notification permissions. Solution: Enable the app's notification permissions. Cause 2: The communication between the carbon monoxide alarm and the router is obstructed, or the distance is too far. Solution: Reduce obstacles between the carbon monoxide alarm and the router, including metal doors and thick walls. The maximum allowable distance between the alarm and the router in an open environment is 164 ft (50 m). Cause 3: The router or phone network is malfunctioning. Solution: Ensure the router and phone network are connected to the carbon monoxide alarm and functioning properly.

13	The app shows that the carbon monoxide alarm is offline.	Cause 1: The battery ran out. Solution: Replace with a new battery. Cause 2: The communication between the carbon monoxide alarm and the router is obstructed, or the distance is too far. Solution: Reduce obstacles between the carbon monoxide alarm and the router, including metal doors and thick walls. The maximum allowable distance in an open environment is 164 ft (50 m). Cause 3: The router or phone network is malfunctioning. Solution: Ensure the router and phone network connected to the carbon monoxide alarm are functioning properly.
14	The LCD shows the concentration value, but the app neither pushes notifications nor shows the concentration value.	Cause: The CO concentration is below 100 ppm and has not yet reached the alarm threshold duration. Solution: To prevent frequent pre-alarm notifications from disturbing customers and to save battery power, the device will not send pre-alarm notifications or display concentration values in the app when CO concentration is below 100 ppm, but reaches the alarm duration threshold, the carbon monoxide alarm will still be triggered and send normal alarm notifications.

15	The LCD display has updated the concentration value, but it hasn't been updated in the app.	Cause: The device is in pre-alarm status, and the concentration has not risen to a higher range. Solution: To save power, the app only updates the concentration value when it comes into a different range during pre-alarm status (for example, rising from 110 ppm to 220 ppm).
16	The LCD stops scrolling the temperature/humidity information.	Cause: When the CO concentration exceeds 30 PPM, the LCD only displays the concentration and stops scrolling the temperature/humidity information. Solution: When the CO concentration drops below 30 PPM, the LCD resumes scrolling, showing the information at a 10-second interval.
17	An alarm occurred previously, but no alarm memory was recorded, and the LED did not flash red periodically.	Cause 1: An alarm memory is generated only when the alarm is cleared automatically as the environmental concentration decreases. Solution: None. Cause 2: After 24 hours, the LED will no longer flash red periodically. Solution: If there was an alarm memory, the LED will stay on red 2 seconds after the self-test is completed.

9 Limitations of CO Alarm

- CO alarms may not wake up all individuals. If children or others do not readily awaken to the sound of the CO alarm, or if there are infants or family members with mobility limitations, make sure that someone assists them in the event of an emergency.
- This CO alarm will not sense carbon monoxide that does not reach the sensor. It will only detect CO that reaches the sensor. CO may be present in other areas. Doors or other obstructions may affect the rate at which CO reaches the CO alarm. For this reason, if bedroom doors are usually closed at night, it is recommended that you install a CO alarm in each bedroom and in the hallway between them.
- CO alarms may not sense CO on another floor of the house. For example, a CO alarm on the second floor, near the bedrooms, may not sense CO in the basement. For this reason, one CO alarm may not give an adequate warning. Complete coverage is recommended by placing CO alarms on each floor of the house.
- CO alarms may not be heard. The alarm buzzer noise level is over 85 dB at a distance of 3 m (10 feet). However, if the CO alarm is installed outside the bedroom, it may not awaken a sound sleeper or one who has recently used drugs or has been drinking alcohol. This is especially true if the door is closed or only partially open. Even persons who are awake may not hear the alarm horn if the sound is blocked by distance or closed doors. Noise from traffic, stereos, radios, televisions, air conditioners, or other appliances may even prevent alert persons from hearing the alarm horn. This CO alarm is not intended for people who are hearing impaired.
- CO alarms are not a substitute for a smoke alarm. Although fire is a source of carbon monoxide, this CO alarm does not sense smoke or fire. This CO alarm senses CO that may be escaping unnoticed from malfunctioning furnaces, appliances, or other possible sources of incomplete combustion. The installation of a smoke alarm is required for an early warning of fire.
- CO alarms are not a substitute for life insurance. Though these CO alarms warn against increasing CO levels, we do not warrant or imply in any way that they will protect lives from CO poisoning. Homeowners and renters must still insure their lives.
- CO alarms have a limited life. Although the CO alarm and all of its parts have passed many stringent tests and are designed to be as reliable as possible, any of these parts could fail at any time. Therefore, you are strongly recommended to test your CO alarm weekly.
- CO alarms are not foolproof. Like all other electronic devices, CO alarms have limitations. They can only detect CO that reaches their sensors. They may not give early warning of rising CO levels if the CO is coming from a remote part of the house or is at some distance

from the CO alarm.

10 Statement

FCC Statement:

1. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Note: This equipment has been tested and found to comply with the limits for a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

3. Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

4. The distance between user and products should be no less than 20 cm.

ISED Statement

English: This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development

Canada's license-exempt RSS(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device. The digital apparatus complies with Canadian CAN ICES - 3 (B)/NMB - 3(B).

Radiation Exposure Statement

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. L'appareil numérique est conforme à CAN ICES-3 (B) / NMB-3 (B).

Déclaration d'exposition aux radiations

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with Local Authority or retailer for recycling advice.



11 Manufacturer and Service Information

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Email: support@x-sense.com

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