# X-SENSE

**Act in Advance**

深圳市安室智能有限公司

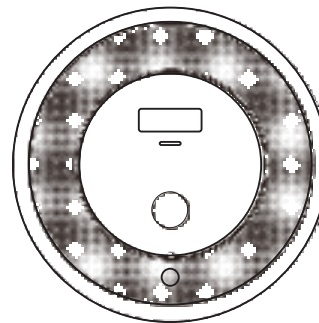| 料号 | F.1.05.XP0A18 | 版本号 | V1.0 |
|---|---|---|---|
| 品名 | XP0A-iR-US 美规 | 设计师 | 柳圳 |
| 材质 | 70g 书纸 | 日期 | 2024/08/19 |
| 工艺 | 骑马订，单黑印刷 | | |
| 尺寸 | 130×130mm | | |
| 公差 | ±1 mm | | |

此页无需印刷

# X-SENSE



## XP0A-iR

**Wi-Fi Combination Smoke and Carbon Monoxide
Alarm with Voice and Location**

# User Manual



Scan the QR code to view the product model.

UL   F.1.05.XP0A18  V1.0

## English

This user manual contains important information about your combination smoke and carbon monoxide alarm's operation. To ensure proper use and trouble-free operation, please read this manual carefully and store it in a safe place for future reference.

## Introduction

This device is a battery-powered Wi-Fi combination smoke and carbon monoxide alarm. After the device is connected to the X-Sense app, you can remotely use your smartphone to control the device, receive app push notifications, and make daily use more convenient.
All X-Sense combination smoke and carbon monoxide alarms conform with regulatory requirements and are designed to detect both smoke and carbon monoxide.

# ⚠ WARNING!

- CAUTION: READ THE INSTRUCTIONS CAREFULLY BEFORE OPERATING OR SERVICING.
- 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.
- THIS APPARATUS SHOULD BE INSTALLED BY QUALIFIED PERSONNEL.
- IT IS NOT TESTED FOR USE IN A CARAVAN OR BOAT.
- 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.
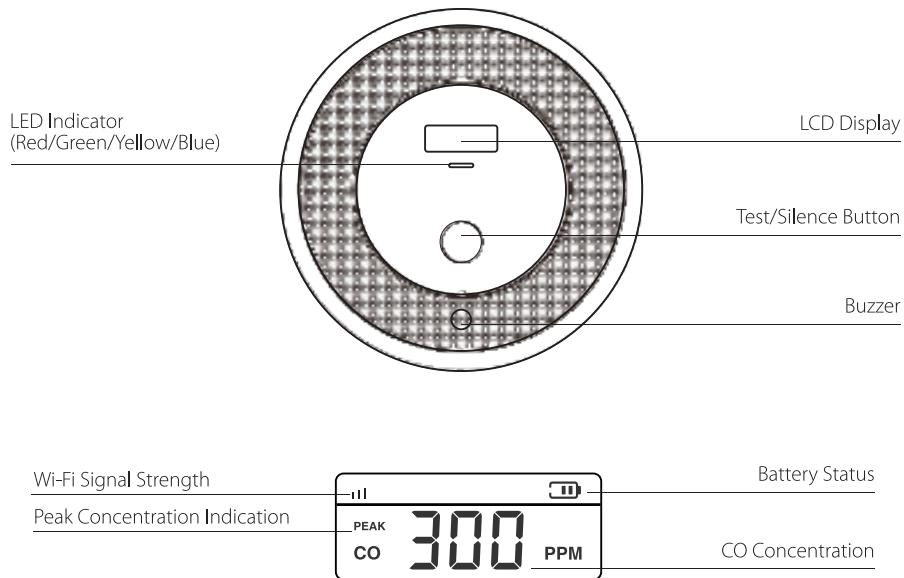
## CAUTION!

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

## Product Overview

### CAUTION!

THIS SMOKE AND CO ALARM IS DESIGNED FOR INDOOR USE ONLY. DO NOT EXPOSE TO RAIN OR MOISTURE. DO NOT KNOCK OR DROP THE ALARM. DO NOT OPEN OR TAMPER WITH THE ALARM AS THIS COULD CAUSE MALFUNCTION.

LED Indicator
(Red/Green/Yellow/Blue)

LCD Display

Test/Silence Button

Buzzer

Wi-Fi Signal Strength

Peak Concentration Indication

PEAK

CO 300 PPM

Battery Status

CO Concentration

## Package Contents

1 × Alarm Unit
1 × Mounting Bracket
3 × Screws
3 × Anchor Plugs

1 × Battery (Pre-installed)
1 × User Manual
2 × Carbon Monoxide Safety Stickers

## Safety Information

DANGERS, WARNINGS, AND CAUTIONS ALERT YOU TO IMPORTANT INSTALLATION AND OPERATING INSTRUCTIONS, OR POTENTIAL HAZARDS. PLEASE PAY ATTENTION TO THE SITUATIONS.

### ⚠ IMPORTANT

1. THIS DEVICE IS NOT DESIGNED FOR HEARING-IMPAIRED PEOPLE. USE OF ALCOHOL OR DRUGS MAY IMPAIR ONE'S ABILITY TO HEAR THE SMOKE ALARM.
2. FIRES IN CHIMNEYS, WALLS, ROOFS, OR BEHIND CLOSED DOORS MAY NOT BE DETECTED.
3. THIS DEVICE IS DESIGNED TO DETECT CARBON MONOXIDE GAS FROM ANY COMBUSTION SOURCE. IT IS NOT DESIGNED TO DETECT ANY OTHER GASES UNLESS THE PRODUCT HAS BEEN INVESTIGATED AND DETERMINED TO MEET APPLICABLE REQUIREMENTS.

### ⚠ WARNING

1. NEVER IGNORE AN ALARM. FAILURE TO RESPOND CAN RESULT IN SERIOUS INJURY OR EVEN DEATH.
2. THE SILENCE FEATURE IS ONLY FOR YOUR CONVENIENCE AND WILL NOT CORRECT A PROBLEM. ALWAYS CHECK YOUR HOME FOR ANY POTENTIAL HAZARDS EVERY TIME AN ALARM SOUNDS.
3. TEST THIS ALARM ONCE A WEEK. IF THE ALARM FAILS TO TEST CORRECTLY, REPLACE IT IMMEDIATELY! IF THE ALARM IS NOT WORKING PROPERLY, IT WILL NOT ALERT YOU TO A PROBLEM.

### CO Alarm Levels

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

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

## 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, fast heart rate. |
| Extreme Exposure | Unconsciousness, convulsions, cardiorespiratory failure, death. |

# ⚠WARNING

- 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.
- MANY CASES OF REPORTED CARBON MONOXIDE POISONING INDICATE THAT WHILE VICTIMS ARE AWARE THEY ARE NOT WELL, THEY BECOME SO DISORIENTED 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.

## Device Setup

### Download the X-Sense Home Security App
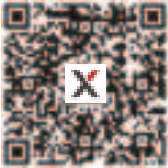


**Download on the**
**Apple App Store**

**GET IT ON**
**Google Play**

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

To download the **X-Sense Home Security** App, scan the QR code or search for "**X-Sense Home Security**" in the Apple App Store or Google Play Store. Sign up with a valid email address. If you already have an account, make sure the app is updated to the latest version.

## 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 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.*

### Connect the Alarm to Wi-Fi

When the alarm is connected to Wi-Fi, you can receive push notifications wherever you are to stay informed of the device status, and to silence an alarm from your smartphone.

1. Tap "⊕", select "Combination Smoke and CO Alarms", tap "Wi-Fi Combination Alarms", and then select "Wi-Fi Combination Alarm with Voice Alerts (XP0A-iR)" in the product list. Then, choose the installation location that matches the actual placement of the device. After that, tap "Next" to enter the next page.

*Choose the precise installation location for the alarm within the app. When an alarm is triggered, it will broadcast this designated location. That is to say, when danger occurs, the alarm will say "Warning. Smoke detected in Location. Evacuate." or "Warning. Carbon monoxide detected in Location. Move to fresh air."*

2. Follow the prompts on the page by press and hold the Test/Silence button on the alarm for 5 seconds. The device will say "Ready to connect" and the LED will flash blue rapidly, indicating that the device is waiting to connect to the Wi-Fi. Then, tap "Operation Confirmed" before the LED goes off.
3. Tap "Next" to add the device, connect to a 2.4 GHz Wi-Fi network and make sure you enter the correct password. After successfully connecting, the device will say "Connected" and "Location Saved." The "Device added" page will then appear, and you can find the alarm in the device list.
4. If you want to add multiple devices into the system, please repeat the above steps.

*Note: If not added to the network within 60 seconds, it says "Connection failed. Please try it again." It automatically exits configuration; repeat steps for re-entry.*

*NOTE:*
*· 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.*
*· To promote successful Wi-Fi connection, make sure you place the alarm within the router range, and that you enter the correct password.*

## App Features

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

**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.

**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.

**Record History:** To access data or check device status, tap the Event History on the device detail page.

**Offline Notifications:** Notify you if the alarm disconnects from the Wi-Fi. Note that this notification may not be sent instantly. To ensure battery life, the device and cloud server connect periodically (but they will connect immediately in the event of an alarm).

**Change the Set Location:** When you first add a device, you'll set its location. If you need to update this location later, just go to the Device Settings page in the app, tap on Location, and choose a new one. Make sure the new location matches where the device is actually installed.

*NOTE:*

*1. It may take up to 12 hours for the location change to take effect, so please be patient. To conserve battery life, the device and cloud server connect periodically (but they will always connect immediately in the event of an alarm).*

*2. To make the location change take effect immediately, briefly press the device's Test/Silent button and wait for the device to complete its self-test (do not press the button again to cancel the self-test). Once the self-test is complete, the device will flash blue light rapidly (indicating it is connecting to the cloud server). After successfully obtaining and saving the new location, the device will announce "Location Saved."*

*When danger occurs, the alarm will say "Warning! Smoke detected in Location. Evacuate." or "Warning! Carbon monoxide detected in Location. Move to fresh air."*

### 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 | Kids room | | 17 | No location |
| 9 | Guest room | | | |

## Alarm Test

## ⚠WARNING!

1. NEVER USE AN OPEN FLAME OF ANY KIND TO TEST THIS UNIT. YOU MIGHT ACCIDENTALLY DAMAGE OR SET FIRE TO THE UNIT OR TO YOUR HOME.
2. NEVER USE A VEHICLE EXHAUST TO TEST THIS UNIT. EXHAUST FUMES MAY CAUSE PERMANENT DAMAGE AND VOID YOUR WARRANTY.
3. DO NOT STAND CLOSE TO THE ALARM WHEN THE ALARM IS SOUNDING. EXPOSURE AT CLOSE RANGE MAY BE HARMFUL TO YOUR HEARING. WHEN TESTING, STEP AWAY WHEN THE ALARM BEGINS TO SOUND.

| Action | Briefly press the test/silence button on the device. |
|---|---|
| Indication | • The device enters test mode and will announce different messages based on the test results, paired with the LED flashing red.<br>• After the test, the device will flash a blue light rapidly (indicating it is connecting to the cloud server). The test results will be sent to your phone. If you've changed the location, the device will also announce "Location Saved."<br>• Then the alarm will automatically enter standby mode. |

*NOTE:*
*Pressing the Test/Silence button is the recommended testing method, which can comprehensively check the sensors, electronic circuits, buzzer, battery, and other components in the alarm. Never use an open flame to test this device.*

## Installation Positioning

1. Prioritize the installation of an alarm in the bedroom and walkways, and make sure you can hear the alarm from all sleeping areas. In a home with several bedrooms, install an alarm in every bedroom. If you install only one smoke alarm in your home, install the alarm near to all bedrooms where possible, and not in a basement or furnace room.
2. Install an alarm above the stairway and on every floor of the house.
3. Smoke, heat and anything burning will spread horizontally after rising to the ceiling, so install the alarm in the middle of the ceiling where possible. Ensure the alarm is within working distance of all corners of the room.

4. If an alarm cannot be installed in the middle of a ceiling, install at a distance of 20 inches (50 cm) away from the corners of the room.
5. If an alarm is installed on a wall, it should be at a distance of 4-12 inches (10-30 cm) below the ceiling.
6. If the length of a room or hall is beyond 30 feet (900 cm), you will need to install several alarms in the same room.
7. When the wall or ceiling is angled, the alarm needs to be installed within 3 feet (90 cm) of the highest wall or ceiling point (measured horizontally) in the room.
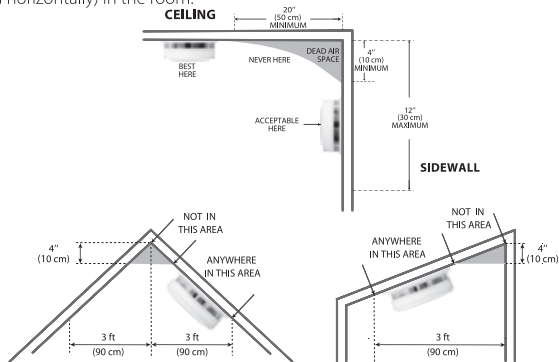


## Recommended Placement

## ⚠ WARNING!

1. THIS ALARM SHOULD BE INSTALLED BY A COMPETENT PERSON.
2. INSTALLATION OF THE ALARM SHOULD NOT BE USED AS A SUBSTITUTE FOR PROPER INSTALLATION, USE AND MAINTENANCE OF FUEL BURNING APPLIANCES INCLUDING APPROPRIATE VENTILATION AND EXHAUST SYSTEMS.
3. TO PREVENT INJURY, THIS DEVICE SHOULD BE SECURELY ATTACHED TO THE CEILING OR WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.
4. BATTERIES SHOULD NOT BE EXPOSED TO EXCESSIVE HEAT SUCH AS DIRECT SUNLIGHT, FIRE, ETC.

SSS SMOKE ALARMS
SSS/CO SMOKE & CO ALARMS
CO CARBON MONOXIDE ALARMS
FIRE EXTINGUISHERS
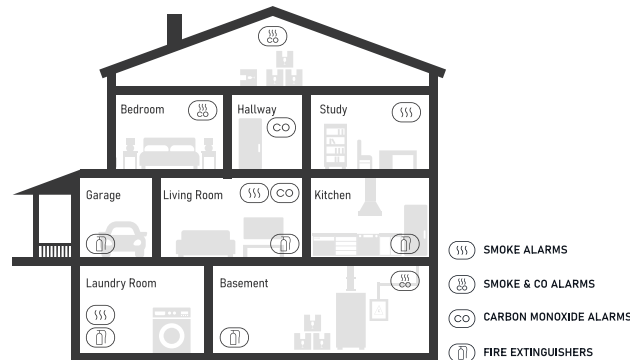
## How to Install This Alarm

⚠ IMPORTANT!

THIS COMBINATION SMOKE/CO ALARM IS DESIGNED TO BE MOUNTED ON THE CEILING OR WALL.

## ⚠ WARNING!

· FAILURE TO PROPERLY INSTALL AND ACTIVATE THIS ALARM WILL PREVENT PROPER OPERATION OF THE ALARM AND WILL PREVENT ITS RESPONSE TO FIRE HAZARDS OR CO.
· THIS DEVICE'S INSTALLATION SHOULD NOT REPLACE THE CORRECT INSTALLATION, USE, AND MAINTENANCE OF FUEL-BURNING EQUIPMENT, INCLUDING PROPER VENTILATION AND EXHAUST SYSTEMS.
· TAMPERING WITH THE DEVICE MAY RESULT IN THE RISK OF ELECTRIC SHOCK OR MALFUNCTION.
· THIS DEVICE MAY NOT PREVENT THE CHRONIC EFFECTS OF CARBON MONOXIDE EXPOSURE AND MAY NOT ADEQUATELY PROTECT INDIVIDUALS AT SPECIAL RISK.

**Locations to Avoid**

# WARNING: This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure CO levels in compliance with the Occupational Safety and Health Administration (OSHA) commercial or industrial standards.

1. Do not install in garages, kitchens, furnace rooms or bathrooms! Do not install within 5 ft (1.5 m) of cooking appliances.
2. Do not install within 3 ft (0.9 m) of the following: The door to a kitchen, or a bathroom that contains a tub or shower, forced air supply ducts used for heating or cooling, ceiling or whole house ventilating fans, or other high air flow areas. Avoid excessively dusty, dirty or greasy areas. Dust, grease or household chemicals can contaminate the alarm's sensors, causing the alarm to not operate properly.
3. Place the alarm where drapes or other objects will not block the sensors. Smoke and CO must be able to reach the sensors to accurately detect these conditions. Do not install in peaks of vaulted ceilings, "A" frame ceilings or gabled roofs. Keep out of damp and humid areas.
4. Do not place in direct sunlight and keep out of insect-infested areas. Extreme temperatures will affect the sensitivity of the smoke/CO alarm.
5. Do not install in areas where the temperature is colder than 40°F (4.4°C) or hotter than 100°F (37.8°C), such as garages and unfinished attics.
6. Do not install in areas where the relative humidity (RH) is above 85% or below 10%. Place away from doors and windows that open to the outside.
7. Smoke alarms are not to be used with detector guards unless the combination (alarm and guard) has been evaluated and found suitable for that purpose.
8. Near large metal surfaces and/or bundles of wire.
9. Near fluorescent lights, amateur radios, electrical equipment, or other devices that may transmit an RF signal, as electronic noise may cause nuisance alarms.

**Mounting Steps**

1. Drill three Ø 6.0 mm holes in the wall or ceiling, then insert three plastic anchor plugs into the holes with a hammer.
2. Attach the mounting bracket to the surface of the wall or ceiling with three screws and mount the alarm into the bracket by pushing them together and twisting the unit clockwise.
3. Test the unit by using the Test/Silence button. Ensure the unit sounds in an alarm pattern.
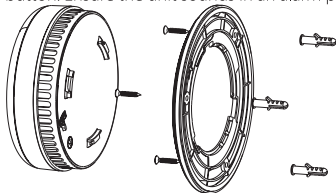
## Peak CO Concentration Memory and Reset

The peak CO concentration feature is helpful in identifying if there have been any dangerous CO readings since a peak CO concentration reset.
Each time you briefly press the test button, after the device completes its self-test, the screen will display "Peak" and the CO concentration recorded since the last reset. The peak CO concentration will be shown for 5 seconds, and then the device will enter standby mode. In this example, 300 ppm was the highest 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 test button for 3 seconds, the device will beep, the LED will flash green, and the peak CO concentration will be reset with LCD displaying "0."
 NOTE :
*1. If the carbon monoxide concentration is lower than 30 ppm, it will not be recorded in the peak CO concentration.*
*2. The peak CO record and reset function are only supported on the device itself and are not controllable through the app.*

## Alarm Mode

When the device detects smoke or CO, the unit will sound an alarm with voice and location and the LED will flash red. The app will show a "Smoke Alarm Triggered" or "CO Alarm Triggered" notification, and an app push notification will be sent to your smartphone.
When the smoke or CO concentration drops below the alarm threshold, the alarm sound will stop, and the LED will flash green once every second for 5 seconds. Then, it will automatically enter standby mode. When the alarm ends, an app push notification will be sent to your smartphone.
*For more details, please see "LED Indicator and Voice Guide".*

## ⚠WARNING!

IF THERE IS ANY DOUBT ABOUT THE CAUSE OF THE ALARM, IT SHOULD BE ASSUMED THAT THE ALARM IS TRIGGERED BY DANGEROUS LEVELS OF SMOKE OR CARBON MONOXIDE, AND THE RESIDENCE SHOULD BE EVACUATED.

## Silence Mode

**Smoke Silence Mode:** Press the test button during an alarm to have the unit enter silence mode. If the smoke concentration has reached an alarm level, after the silence time has expired, this unit will continue to alarm until the smoke concentration decreases to a safe, low level. Otherwise, the alarm will enter the normal mode after 9 minutes.

*Note:*
*1. If smoke levels are too high, the alarm cannot be silenced.*
*2. If smoke levels keep increasing and go beyond the mute threshold while the alarm is silenced, the device will automatically exit silence mode and sound the alarm again.*
**CO Silence Mode:** Press the test button during an alarm to have the unit enter silence mode. During silence mode, if the carbon monoxide concentration is still 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 and resume normal operation.
You will receive an instant notification from the app telling you that the device has been temporarily silenced.

## Battery Replacement

### Low Battery
The LED flashes yellow once every 60 seconds. For the first 15 minutes, the device will give a verbal warning every 60 seconds. After 15 minutes, the device will stop the voice alert and beep once every 60 seconds.
(If you press the test button when there is low battery, the low battery signal will temporarily cease for 10 hours.)

### Replacing Battery
1. To replace the battery, detach the alarm from the mounting bracket by twisting counterclockwise.
2. Remove the battery, and then install a new battery, matching the correct polarity markings.
3. Test the alarm, and then mount the alarm onto the mounting bracket by twisting clockwise to lock the alarm.
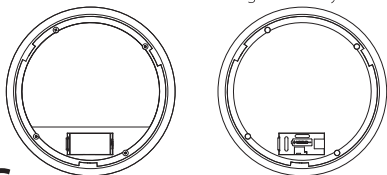


· **WARNING:** Test the alarm for correct operation using the test facility, whenever the battery is replaced.
· **WARNING:** KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN.
· In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice immediately.

· NEVER charge a battery unless it is a rechargeable battery.
· Do not mix alkaline, standard (carbon-zinc) or rechargeable (Ni-Cd; Ni-MH) batteries.
· 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.
· 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 by an incorrect type.
· CONSTANT EXPOSURE TO HIGH OR LOW TEMPERATURES AND HIGH HUMIDITY MAY REDUCE BATTERY LIFE.
· **WARNING:** Use only batteries specified in marking. Use of a different battery will have a detrimental effect on alarm operation.
· **WARNING:** Test the alarm for correct operation using the test facility, whenever the battery is replaced.
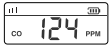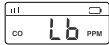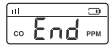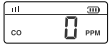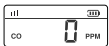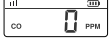
### End of Life
When the device reaches its end of life, the LED will flash yellow 3 times every 60 seconds. For the first 15 minutes, the device will give a verbal warning. After 15 minutes, the device will stop the voice alert and beep 3 times every 60 seconds. This end-of-life signal can be temporarily 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.

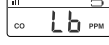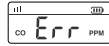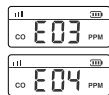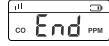| Mode | LCD Display | LED Indicator | Voice Guide | Remarks |
|---|---|---|---|---|
| Powering On | --- | Runs through 8 cycles (yellow/green/red) in sequence. | "Hello from X-Sense." "Press the Test/Silence button to test." | First-time use, remove the battery insulating film from the battery compartment to turn on the device. |
| Wi-Fi Pairing Mode | CO 0 PPM | Flashes blue rapidly. | Ready to connect. | |
| Connected to Wi-Fi Successfully | CO 0 PPM | None. | Connected. | |
| Standby Mode | CO 0 PPM | Flashes green once every 60 seconds. | None. | None. |
| Test Mode | CO 0 PPM / --- | 3 red flashes followed of 4 red flashes. | "This is only a test. The alarm will sound loudly. You can press the Test/Silence button to cancel the test. Testing the smoke sensor. Testing the carbon monoxide sensor. The test is finished." | Short press the Test/Silence button. |
| | | | "Test canceled." | Exit the test mode |
| | PAS | | "Normal working status." | Normal functioning. |
| | CO Lb PPM | | "Caution. Low battery. Replace the battery now." | Low battery |

• 14 •

| | | | | "Caution. Smoke sensor malfunction. Replace the device now." | Smoke sensor malfunction. Replace the device immediately. |
|---|---|---|---|---|---|
| | | CO Err PPM | | "Caution. Carbon monoxide sensor malfunction. Replace the device now." | Carbon monoxide sensor malfunction. Replace the device immediately. |
| | | CO E03 PPM / CO E04 PPM | | | |
| | | CO End PPM | | "Caution. The alarm has reached the end of its lifetime. Replace the device now." | Replace the unit immediately. |
| Alarm Mode | Unit detected smoke and initiated an alarm. | CO 0 PPM | Flashes red 3 times every 4 seconds. | "Warning. Smoke detected in Location. Evacuate." | Dangerous smoke concentration is detected. Open nearby windows and doors, and immediately move to fresh air. |
| | Unit detected CO and initiated an alarm. | CO 124 PPM | A CO concentration ranging from 70 to 999 ppm has been present for a certain time period. The LED indicator flashes red 4 times 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. Open nearby windows and doors, and immediately move to fresh air. |
| | Smoke/CO concentration level drops. | CO 0 PPM | Flashes green once every second for 5 seconds. | "Danger cleared." | Alarm cancellation: when the smoke/CO concentration level drops below the alarm threshold, the alarm signal will stop. |
| Silence Mode | | CO 0 PPM | Flashes red 3 times every 4 seconds. | "Smoke alarm silenced." | Smoke silence mode: After 9 minutes, the unit will exit silence mode. |
| | | | | "This alarm cannot be silenced. Smoke levels too high." | When the smoke concentration is too high, the sound cannot be muted by pressing the test button. |

• 15 •

| Category | Display | Flash Pattern | Audio | Description |
|---|---|---|---|---|
| | CO 124 PPM | Flashes red 4 times every 5.8 seconds. | "Carbon monoxide alarm silenced." | CO silence mode: After 9 minutes, the unit will exit silence mode. |
| | CO Lb PPM | Flashes yellow once every 60 seconds. | "Temporarily silenced." | Silence mode during low battery: After 10 hours, the unit will exit silence mode. |
| | CO End PPM | Flashes yellow 3 times every 60 seconds. | "Temporarily silenced." | Silence mode during the end of cycle: After 22 hours, the unit will exit silence mode. |
| | CO 0 PPM | Flashes green 3 times. | None. | After 9 minutes of silence, it will automatically exit silent mode. |
| Setting Location | CO 0 PPM | Flashes blue rapidly. | "Location saved." | After changing the device location via the app, wait up to 12 hours for the update to take effect. Alternatively, you can press the test button briefly to initiate a test. Once the test is complete, the device will connect to the cloud server to update the location. |
| Peak CO Concentration Indication | CO 300 PPM | Flashes green once. | None. | |
| Peak CO Concentration Reset | CO 0 PPM | Flashes green once. | None. | The peak CO concentration will be reset with LCD displaying "0." |

• 16 •

| Category | Display | Flash Pattern | Audio | Description |
|---|---|---|---|---|
| Low Battery | CO Lb PPM | Flashes yellow once every 60 seconds. | "Caution. Low battery. Replace the battery now." | Replace the battery immediately. |
| Fault | CO Err PPM | Flashes yellow 2 times every 60 seconds. | "Caution. Smoke sensor malfunction. Replace the device now." | Smoke sensor malfunction. Replace the device immediately. |
| | CO E03 PPM / CO E04 PPM | | "Caution. Carbon monoxide sensor malfunction. Replace the device now." | Carbon monoxide sensor malfunction. Replace the device immediately. |
| End of Life | CO End PPM | Flashes yellow 3 times every 60 seconds. | "Caution. The alarm has reached the end of its lifetime. Replace the device now." | Replace the unit immediately. |

## Technical Specifications

| | |
|---|---|
| Power Supply | CR123A lithium battery (replaceable) |
| Battery Life | 1 year (test once a week) |
| Product Life | 10 years |
| Sensor Type | Smoke: Photoelectric |
| | CO: Electrochemical |
| CO Sensitivity | 30 ppm: > 120 minutes |
| | 50 ppm: 60–90 minutes |
| | 100 ppm: 10–40 minutes |
| | 300 ppm: < 3 minutes |
| Smoke Sensitivity | 1.29–2.36% obs/ft |
| Operating Temperature | 40–100°F (4.4–37.8°C) |
| Operating Relative Humidity | 10%–85% RH (non-condensing) |

• 17 •

| Alarm Loudness | ≥ 85 dB at 10 ft (3 m) @ 3.2 ± 0.3 kHz pulsing alarm |
|---|---|
| Silence Duration | ≤ 9 minutes |
| App | X-Sense Home Security (both Android and iOS supported) |
| Number of Allowed Devices | One app account can create up to 5 houses. Each house can add 1 base station and 49 Wi-Fi products. The Wi-Fi products can include this product as well as other X-Sense Wi-Fi products. |
| Wireless Frequency | 2.4 GHz (incompatible with 5 GHz Wi-Fi network) |
| Band | 2400–2483.5 MHz |
| Transmission Range | 170 ft (50 m) (depending on your router's performance and the home environment) |

NOTE:
1. Battery life is calculated on the current ratings in the standby mode with weekly testings. If its operation mode changes to an alarming condition, the battery life will be decreased accordingly.
2. The alarm functions between 40 and 100°F (4.4 and 37.8°C). Prolonged exposure to temperatures outside of this range can reduce battery life and affect accuracy. We do not recommend operating the device outside of this range.

## Maintenance

To keep your alarm in good working order, follow these simple steps:

1. Verify the unit's alarm sound and indicator are working properly by testing the unit once a week.
2. As a minimum your alarm should be cleaned once every 3 months: Remove the unit from the ceiling and clean the alarm cover and vents with your vacuum cleaner fitted with the soft brush attachment to remove dust and dirt.
3. Never use detergents or other solvents to clean the unit.
4. Avoid spraying air fresheners, hair spray or other aerosols near the alarm.
5. Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect fire or CO.
6. Never attempt to disassemble the unit or clean inside. Doing so will void your warranty.
7. When removed, place the alarm back in its proper location as soon as possible, to assure continuous protection from fire or carbon monoxide.
8. When household cleaning supplies or similar contaminants are used, the area should be ventilated.

## Troubleshooting

*Note: If the alarm cannot function properly, please contact us for advice.*

| Problems | Cause | Solution |
|---|---|---|
| The device is not triggered when it is tested with smoke. | The device is not turned on. | Make sure the battery insulating film is removed. If the battery runs out, please replace the battery. |
| | The smoke is not reaching the sensor properly. | The smoke needs to enter the smoke sensor from the air inlets on the side to trigger the device. |
| | The time duration is insufficient for the device to detect smoke. | Continuous smoke is necessary for the device to be triggered. When smoke reaches the smoke sensor, the device will be triggered in about 20 seconds. |
| | Insufficient smoke concentration. | This product utilizes a photoelectric sensor, requiring sufficient smoke concentration for detection. Higher smoke levels lead to faster alarm response. Avoid using an open flame for testing. |
| The alarm does not sound during a test. | The device does not turn on. | Remove the battery insulating film from the battery compartment to turn on the device. If the battery runs out, please replace the battery. |
| | You don't push the Test/Silence button firmly. | Make sure you have pushed the Test/Silence button firmly. |
| False alarms are triggered intermittently when residents are cooking, taking showers, etc. | The device is improperly installed. | Install the device far away from kitchen appliances, dusty places, shower areas, and locations where the temperature is over 100°F (37.8°C) or below 40°F (4.4°C). Check the location of your alarm (see "**Installation Positioning**"). |
| | The device is clogged by dirt and dust. | Clean the device periodically (see "**Maintenance**"). |
| Unable to add the device to the app. | Incorrect Wi-Fi name or password. | Enter the correct Wi-Fi name and password. |
| | Bluetooth permission not enabled on the phone. | Enable Bluetooth permission on your phone. |
| | Device not in pairing mode. | Press and hold the test button for 5 seconds; the device will flash a blue light and enter pairing mode. |
| The app push notification is delayed or there are no push alerts. | The app push notification permission is disabled. | Turn on the push notification permission on the phone. |

| | | |
|---|---|---|
| | The device is not within the network coverage of the router. | The distance between the device and the router should be within 170 ft (50 m). Please ensure that the device is always within the network coverage of the router. |
| | The network connection of the router and the mobile phone is abnormal. | Make sure the network connection of the router and the mobile phone is working normally. |
| **The app shows that the device is offline or the operation failed.** | The battery ran out. | Replace the battery. |
| | The communication between the alarm and the router is blocked or the distance is too far. | Reduce the obstacles between the alarm and the router. The maximum distance between the alarm and the router is 170 ft (50 m) in an open environment. |
| | The network connection of the router and the mobile phone is abnormal. | Make sure the network connection of the router and the mobile phone is working normally. |
| **The device location is changed via the app, but it indicates that the change cannot take effect immediately.** | After changing the location, it usually takes up to 12 hours for the update to take effect, so please be patient. This is to ensure battery life, as the device and cloud server connect periodically (but they will always connect immediately in the event of an alarm). | If you want the location change to take effect immediately, briefly press the device's Test/Silence button and wait for the device to complete its self-test (do not press the button again to cancel the self-test). Once the self-test is finished, the device will flash a blue light (indicating it is connecting to the cloud server). After successfully obtaining and saving the new location, the device will announce "Location Saved." |
| **The device screen shows the concentration value, yet the app does not provide notifications or display the concentration value.** | The carbon monoxide (CO) concentration value is currently below 100 ppm, and the alarm threshold time has not been reached yet. | Device won't send a "CO Alarm Precaution" alert for CO concentrations under 100 ppm to save power and avoid disturbances. App won't display values either. But if CO under 100 ppm lasts for a period of time and reaches alarm threshold, normal alarm notification is sent. |
| **The LED flashes yellow once every 60 seconds with 1 beep and voice alert.** | Low battery. | The battery is low. Push the Test/Silence button once to silence for 10 hours. **Replace the battery immediately.** |

• 20 •

| | | |
|---|---|---|
| **The LED flashes yellow 2 times every 60 seconds with 2 beeps and voice alert.** | Malfunction. | If there is a smoke or CO sensor malfunction prompt, follow the instructions in the manual to clean the device and confirm if normal operation is restored. If not, **replace the device immediately.** |
| **The LED flashes yellow 3 times every 60 seconds with 3 beeps and voice alert.** | End of life. | The maximum lifetime is reached. Push Test/Silence button once to silence for 22 hours. **Replace the alarm immediately.** |

## If the Smoke Alarm Sounds

1. Don't panic; stay calm. Follow your family's escape plan.
2. Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.
3. Feel doors with the back of your hand before opening them.
4. If a door is cool, open it slowly. Don't open a hot door. Keep doors and windows closed, unless you must escape through them.
5. Cover your nose and mouth with a cloth (preferably damp).
6. Take short, shallow breaths.
7. Meet at your planned meeting place outside your home, and do a head count to make sure everybody got out safely.
8. Call the Fire Department as soon as possible from outside. Give your address, then your name.
9. Never go back inside a burning building for any reason.
10. Contact your Fire Department for ideas on making your home safer.

## If the CO 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 reset/silence button (test/silence button).
2) Call your emergency services (Telephone Number) [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 a 24-hour period, repeat steps 1-3 and call a qualified appliance technician (Telephone Number) to investigate for 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 manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not been, operating in an attached garage or adjacent to the residence.

• 21 •

**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:

· 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).

· Negative pressure differential resulting from the use of exhaust fans.

· Simultaneous operation of several fuel-burning appliances competing for limited internal air.

· Vent pipe connection vibrating loose from clothes dryers, furnaces, or water heaters.

· Obstructions in or unconventional vent pipe designs which amplify the above situations.

2. Extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.).

3. Temperature inversions which can trap exhaust gasses near the ground.

4. Car idling in an open or closed attached garage, or near a home.

## Limitations of CO Alarms

1. 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.

2. This CO alarm will not sense carbon monoxide that does not reach the sensor. This CO alarm 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.

3. CO alarms may not sense CO on another level of the house. For example, a CO alarm on the second level, 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 level of the house.

4. CO alarms may not be heard. The alarm buzzer noise level is over 85 dB at a distance of 10 feet (3 m). 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.

5. 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.

6. 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.

7. 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.

8. 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.

## 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.

## Manufacturer and Service Information

X-Sense Electronics Co., Ltd.
Address: Room 402, Building 4, No. 9, Jinshagang 1st Road, Shixia Village, Dalang Town, Dongguan City, 523750 Guangdong, P.R. China
Email: support@x-sense.com

## FCC Statement

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, and

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. 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.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## RF Exposure Considerations

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