X-SENSE

Combination Smoke and Carbon Monoxide Alarm with Voice Alerts

User Manual

XP0A-SR









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

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

All X-Sense combination smoke and carbon monoxide alarms conform with regulatory requirements, including UL 217 and UL 2034 standards and are designed to detect both smoke and carbon monoxide.

This unit adopts photoelectric technology to detect smoke which is generally more sensitive than ionization technology. It is effective at detecting large particles, which tend to be produced in greater amounts by smoldering fires. These types of fires may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding.

Carbon monoxide (CO) is odorless, tasteless and invisible - it's a silent killer. Using electrochemical sensing technology, this unit can detect increased levels of carbon monoxide early, protecting your family from the dangers of carbon monoxide.

- 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 is to be installed by a competent person.
- It is not tested for use in a caravan or boat

NOTE: For maximum protection, use smoke and CO alarms on each level and in every bedroom of your home.

NEVER IGNORE THE SOUND OF THE ALARM!

Determining what type of alarm has sounded is easy with your X-Sense combination smoke and carbon monoxide alarm. The buzzer will inform you of the type of situation occurring.

Package Contents



Alarm Unit (Pre-installed Battery)

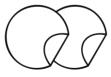
Anchor Plugs



User Manual



Screws



Carbon Monoxide Safety Stickers

Technical Specifications

Power Supply	CR123A lithium battery (replaceable)	
Battery Life	5 years	
Sensor Type	Smoke: Photoelectric	
	CO: Electrochemical	
Safety Standards	UL 217 and UL 2034	
CO Sensitivity	70 ppm: 60–240 minutes	
	150 ppm: 10–50 minutes	
	400 ppm: 4–15 minutes	
Operating Temperature	40-100°F (4.4-37.8°C)	
Operating Relative Humidity	10%–85% RH (non-condensing)	
Alarm Loudness	≥ 85 dB at 10 ft (3 m) @ 3.2 ± 0.3 kHz pulsing alarm	
Silence Duration	≤ 9 minutes	

NOTE:

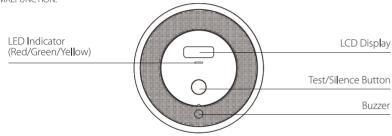
- Battery life is calculated on the current ratings in the standby mode with weekly testings. If its operation mode changes to an alarming condition, the battery life will be decreased accordingly.
- This alarm functions between 40–100°F (4.4–37.8°C). Prolonged exposure to lower or higher temperatures can reduce battery life and affect device performance. We do not recommend operating the device beyond its temperature range.

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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 MAI FUNCTION



Powering On

For initial use, remove the battery insulation film from the compartment to activate the device. It will emit a single beep, and the LCD display will illuminate. The LED indicator will cycle through 8 sequences (yellow/green/red). Once the LCD and LED turn off, the device will announce, "Hello from X-Sense. Press the Test/Silence button to test."

NOTE: Pressing the test/silence button during this report will yield no response.

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

When testing the alarm weekly, briefly press the test button to test the alarm and the device will have a voice alarm with the LED flashing red.

Please refer to the "Alarm Test" section for further information. The alarm goes back to the standby mode after testing.

NOTE: After a test has begun, the alarm will sound and the LED will flash red. This does not indicate that smoke/CO is present.

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 unit will exit from silence mode after 9 minutes and resume normal operation.

CO Silence Mode: Press the test button during an alarm to have the unit enter silence mode. If the CO density still exceeds the alarm threshold, the unit will re-enter alarm state. Otherwise, the unit will exit the silence mode after 9 minutes and resume normal operation.

NOTE: If smoke levels are too high, the alarm cannot be silenced.

Buzzer

The alarm will sound when there is smoke or CO present, when you test the alarm, and when there is a fault.

LED Indicator

The LED indicator will flash in conjunction with the buzzer. Therefore, it will flash during the following states: when powering on, in standby mode, during smoke or CO alarm states, when exiting an alarm state, during test mode, when there is low battery, in silence mode, when there is a fault and when the unit is at the end of its life.

Low Battery

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.

If you press the test button when there is low battery, the low battery signal will temporarily cease for 10 hours.

End of Life

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 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/silence 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

LED Indicator and Voice Guide

Mode		LCD Display	LED Indicator	Voice G	iuide	Remarks
Powering On			Runs through 8 cycles (yellow/green/red) in sequence.	First-time use.	X-Sense. insulating film is removed Press the the device is turned on. W	insulating film is removed and
				The battery is replaced.		the LED stops flashing, the voice guide will give
Standby	Mode	со РРМ	Flashes green once every 60 seconds.	None.		None.
	Unit detects smoke and initiates an alarm.		Flashes red 3 times every 4 seconds.	"Warning detected.	. Smoke Evacuate."	Dangerous smoke concentration is detected. Open nearby windows and doors, and immediately move to fresh air.
Alarm Mode	Unit detects CO and initiates an alarm.	© 154 mm	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 monoxide Move to f	e detected.	Dangerous CO concentration is detected, and has reached the alarm status. Open nearby windows and doors, and immediately move to fresh air.

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	Unit detects CO (alarm not initiated).	CO 124 PPM	A CO concentration level ranging from 30 to 999 ppm has been detected, but for less than the allotted detection period. The LED indicator flashes green once every 60 seconds.	None.	Dangerous CO concentration is detected, but has not reached the alarm status. Potentially dangerous CO conditions exist. Please search for the CO source first. Open nearby windows and doors, and immediately move to fresh air.
	Smoke/CO concentration level drops.		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.
Test M	ode	PRS	1 set of 3 red flashes followed by 1 set 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."	Short press the Test/Silence button.
		со Пррм		"Testing the smoke sensor."	
				"Testing the carbon monoxide sensor."	
				"The test is finished."	
				"Normal working status."	Normal functioning.
				"Caution. Low battery. Replace the battery now."	Low battery

			"Caution. Smoke sensor malfunction. Replace the device now."	Smoke sensor malfunction.
			"Caution. Carbon monoxide sensor malfunction. Replace the device now."	Carbon monoxide sensor malfunction.
Silence Mode		Flashes red 3 times every 4 seconds.	"Smoke alarm silenced."	Smoke silence mode: After 9 minutes, the unit will exit silence mode.
	CO 124 PPM		"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/silence button.
		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 PPM	Flashes yellow once every 60 seconds.	"Temporarily silenced."	Silence mode during low battery: After 10 hours, the unit will exit silence mode.
	∞ End ppm	Flashes yellow 3 times every 60 seconds.	"Temporarily silenced."	Silence mode during the end of cycle: After 22 hours, the unit wil exit silence mode.
		Flashes green 3 times.	None.	Exiting silence mode.

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Low Battery	co PPM	Flashes yellow once every 60 seconds.	"Caution. Low battery. Replace the battery now."	Replace the battery immediately.
Fault	CO E PPM STD CO E STD CO E STD PPM STD CO E STD CO E	Flashes yellow 2 times every 60 seconds.	"Caution. Smoke sensor malfunction. Replace the device now." "Caution. Carbon	Please clean your alarm and see if it is working normally. If the unit has malfunctioned, it must be replaced immediately.
	со ЕПЧ ррм		monoxide sensor malfunction. Replace the device now."	
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.

Alarm Test

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

	Test the Alarm
Action	Short press the Test/Silence button.
Indication	The alarm has a voice alarm. Please refer to the "LED Indicator and Voice Guide" part for more details. The alarm will emit 1 set of 3 long beeps followed by 1 set of 4 quick beeps. The LED will flash red during the audible signal. After testing, the alarm will automatically enter standby mode.

NOTE: The test function accurately tests the alarm's circuits without the need to test with smoke and CO. If your alarm fails to give an audible test signal, please refer immediately to the troubleshooting guide at the end of this manual.

Basic Safety Information

A IMPORTANT

- I. DANGERS, WARNINGS, AND CAUTIONS ALERT YOU TO IMPORTANT OPERATING INSTRUCTIONS OR TO POTENTIALLY HAZARDOUS SITUATIONS. PAY SPECIAL ATTENTION TO THESE SITUATIONS
- HIS COMBINATION SMOKE & CARBON MONOXIDE ALARM IS ONLY APPROVED FOR HOME USE.
- THIS CARBON MONOXIDE ALARM IS DESIGNED TO DETECT CARBON MONOXIDE FROM A<u>NY SOURCE OF COMBUSTION.</u>
- 4. CONSTANT EXPOSURES TO HIGH OR LOW HUMIDITY MAY REDUCE BATTERY LIFE. SMOKE ALARMS ARE NOT TO BE USED WITH DETECTOR GUARDS LINESS THE COMPLIANTION HAS REEN EVALUATED AND FOUND SUITARLE FOR THAT PURPOSE

A CAUTION

IN OTHER AREAS. THE SMOKE ALARM WILL ONLY INDICATE THE PRESENCE OF SMOKE THAT REACHES THE SENSOR. THE SMOKE ALARM IS NOT DESIGNED TO DETECT GAS. HEAT OR FLAMES.

A WARNING

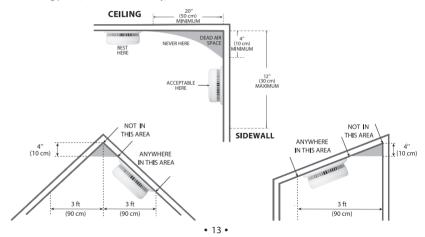
- 1. NEVER IGNORE ANY ALARM. FAILURE TO RESPOND CAN RESULT IN SERIOUS INJURY OR DEATH.
- 2. THE SILENCE FEATURE IS ONLY FOR YOUR CONVENIENCE AND WILL NOT CORRECT A PROBLEM. ALWAYS CHECK YOUR HOME FOR A POTENTIAL PROBLEM AFTER ANY ALARM. FAILURE TO DO SO CAN RESULT IN INJURY OR DEATH.
- 3. TEST THIS SMOKE/CO ALARM ONCE A WEEK. IF THE ALARM EVER FAILS TO TEST CORRECTLY, REPLACE IT IMMEDIATELY! IF THE ALARM CANNOT WORK PROPERLY. IT WILL NOT ALERT YOU TO A PROBLEM.
- 4. THIS PRODUCT IS INTENDED FOR USE IN ORDINARY INDOOR LOCATIONS OF FAMILY LIVING UNITS. IT IS NOT DESIGNED TO MEASURE CO LEVELS IN COMPILANCE WITH OCCUPATIONS LAFETY AND HEALTH ADMINISTRATION (OSHA) COMMERCIAL OR INDUSTRIAL STANDARDS. INDIVIDUALS WITH MEDICAL CONDITIONS THAT MAY MAKE THEM MORE ESHISTIVE TO ACRED MONOWIDE MAY CONSIDED USING WARRING DEVICES WHICH PROVIDE AUDIELS AND VISUAL SIGNALS FOR CABBON MONOXIDE CONCENTRATIONS UNDER 30 PPM. FOR ADDITIONAL INFORMATION ON CARBON MONOXIDE AND YOUR MEDICAL CONDITION CONTACT YOUR PHYSICIAN.
- 5. THE REPLACEMENT DATE THAT APPEARS ON THE DEVICE IS THE DATE BEYOND WHICH THE DEVICE MAY NO LONGER DETECT CARBON MONOXIDE ACCURATELY AND SHOULD BE IMMEDIATELY REPLACED.
- 6. THIS DEVICE IS DESIGNED TO PROTECT INDIVIDUALS FROM THE ACUTE EFFECTS OF CARBON MONOXIDE EXPOSURE. IT MAY NOT FULLY SAFEGUARD INDIVIDUALS WITH SPECIFIC MEDICAL CONDITIONS. IF IN DOUBT, CONSULT A MEDICAL PRACTITIONER.

Installation Positioning

Installation Locations

- 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.

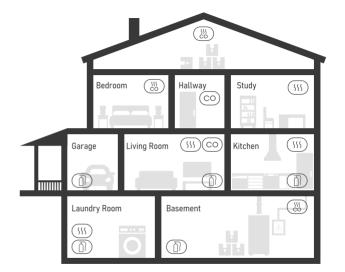


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Recommended Placement

M 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.



SMOKE ALARMS

SMOKE & CO ALARMS

(CO) CARBON MONOXIDE ALARMS

FIRE EXTINGUISHERS

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How to Install This Alarm

A IMPORTANT

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

A 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.

Locations to Avoid

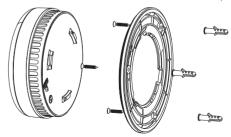
WARNING: This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure CO levels in compliance with the Occupational Safety and Health Administration (OSHA) commercial or industrial standards.

- 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 (90 cm) 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. Install at least 1 ft (30 cm) away from fluorescent lights, as electronic noise may cause nuisance alarms.
- 5. Do not place in direct sunlight and keep out of insect-infested areas. Extreme temperatures will affect the sensitivity of the smoke/CO alarm.

- 6. 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.
- 7. 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.
- 8. 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.

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.



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Battery Replacement

- 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





Maintenance

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

- 1. Verify the unit's alarm sound and indicators 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 smoke or CO.
- 6. Never attempt to disassemble the unit or clean inside. Doing so will void your warranty.
- 7. When removed, place the smoke/CO alarm back in its proper location as soon as possible, to assure continuous protection from fire or carbon monoxide poisoning.
- 8. When household cleaning supplies or similar contaminants are used, the area should be ventilated.

What You Need to Know About CO

CO cannot be seen, smelled or tasted and can be fatal. The build-up of CO in the blood is called the carboxyhemoglobin (COHb) level and interferes with the body's ability to supply itself with oxygen. Depending on the concentration, CO can kill in minutes. The most common sources of CO are malfunctioning gas appliance used for heating and cooking, vehicles running in an attached garage, blocked chimneys or flues, portable fuel burning heaters, fireplaces, fuel powered tools and operating a grill in an enclosed space.

Indications of carbon monoxide poisoning include symptoms similar to the flu, but with no fever. Other symptoms include dizziness, fatigue, weakness, headache, nausea, vomiting, sleepiness and confusion. Everyone is susceptible to the danger of CO, but experts agree that unborn babies, small children, pregnant women, senior citizens and people with heart or respiratory problems are at the highest risk for serious injury or death. Every year a qualified technician should inspect and clean your heating system, vents, chimney, and flues.

The following symptoms are related to carbon monoxide poisoning and should be discussed with all members of the household:

Mild exposure: Slight headache, nausea, vomiting, fatigue (often described as "flu-like" symptoms).

Medium exposure: Severe throbbing headache, drowsiness, fast heart rate.

Extreme exposure: Unconsciousness, cardiorespiratory failure, death.

The above levels of exposure relate to healthy adults. Levels differ for those at high risk. Exposure to high levels of carbon monoxide can be fatal or cause permanent damage and disabilities. 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. Also, young children and household pets may be the first affected. Familiarization with the effects of each level is important.

Following Conditions Can Result in Transient CO Situations:

- 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 resulting from the use of exhaust fans.
- Simultaneous operation of several fuel-burning appliances competing for limited internal air.
- Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters.
- Obstructions in, or unconventional, vent pipe designs which can amplify the above situations.
- Extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.).
- Temperature inversions which can trap exhaust gases near the ground.
- A car idling in an open or closed attached garage, or near a home.

Troubleshooting

Problems	Cause	Solution
The device is not triggered when it is	The device is not turned on.	Make sure the battery insulating film is removed. If the battery runs out, please replace the battery.
tested with smoke.	The smoke is not reaching the sensor properly.	Smoke must enter the smoke sensor through the side openings to activate the device. Please be aware that the top of the device features the buzzer and decorative metal mesh.
	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 is not turned on.	Make sure the battery insulating film is removed. 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").

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	The device is clogged by dirt and dust.	Clean the device periodically (see "Maintenance").
The LED flashes yellow once every 60 seconds with one beep.	Low battery.	The battery is low. Push the Test/Silence button once to silence for 10 hours. Replace the battery immediately .
The LED flashes yellow 2 times every 60 seconds with 2 beeps.	Malfunction.	The alarm is malfunctioning. Please clean your alarm and see if it is working normally. If not, replace the device immediately .
The LED flashes yellow 3 times every 60 seconds with 3 beeps.	End of life.	The maximum lifetime is reached. Push Test/Silence button once to silence for 22 hours. Replace the alarm immediately.

FCC Statement

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.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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