Ανιχνευτής μονοξειδίου του άνθρακα X-Sense XC0C-MR Link+

X-Sense · EAN 0810194781520

Machine translation from Polski. In case of doubt the manufacturer's original document prevails.

Carbon Monoxide Alarm (Type B)

Replaceable Battery

User Manual

Model: XC0C-MR

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

1 Introduction

This device is a battery-operated carbon monoxide alarm Link Pro with an advanced electrochemical sensor, designed for home use. It is important to remember that this carbon monoxide alarm is designed to detect carbon monoxide gas from any combustion source. The device does not detect smoke, heat, flames, or other hazardous gases apart from carbon monoxide, even though carbon monoxide can be produced during a fire. For this reason, smoke detectors should be installed to provide early warning of fire and protect you and your family from fire and related hazards.

WARNING

1. WARNING: READ THIS MANUAL CAREFULLY BEFORE OPERATING OR SERVICING.
2. INSTALLATION OF THE DEVICE SHOULD NOT REPLACE PROPER INSTALLATION, USE, OR MAINTENANCE OF FUEL-BURNING APPLIANCES, INCLUDING PROPER VENTILATION AND EXHAUST SYSTEMS.
3. THE DEVICE SHOULD BE INSTALLED BY QUALIFIED PERSONNEL.
4. HANDLING THE DEVICE MAY CAUSE RISK OF ELECTRIC SHOCK OR MALFUNCTION.
5. THE DEVICE IS NOT INTENDED FOR USE IN CAMPERS OR BOATS.
6. THIS PRODUCT IS INTENDED FOR USE IN NORMAL INDOOR RESIDENTIAL LOCATIONS.

CAUTION

This alarm detects the presence of carbon monoxide at the sensor. Carbon monoxide may also be present in other locations.

1.1 Product Overview

Peak Value Button

Test/Silence Button

LCD Display

LED Indicator (Red/Yellow/Green/Blue)

Speaker

Alarm Sound Level

Battery Status

Maximum Level Indication

CO Level

1.2 Technical Specifications

Power Supply

3 V (1) CR123A lithium battery (replaceable)

Battery Life 5 years (tested once a week)

Maximum Usage Time 10 years

Sensor Type CO: electrochemical

Safety Standard EN 50291

50 ppm: 60–90 minutes

CO Alarm Response Time 100 ppm: 10–40 minutes

300 ppm: < 3 minutes

Operating Temperature 4.4–37.8°C (40–100°F)

Relative Humidity during

10%–85% RH (non-condensing)

Operation

Storage and Transport The device should be stored at temperatures from -10 to

50°C (14–122°F) with relative humidity from 5% to 95%

(non-condensing). Alarm Sound Level

Silence Time

Frequency 869.25–869.3 MHz

Maximum RF Power 10 mW

Maximum Number of Devices 24 wireless units (compatible only with X-Sense Link Pro and

Link wireless alarms). Maximum allowed number of devices One base station can support up to 50 alarms.
Transmission Range Over 500 m (1640 feet) in open space

1.3 Package Contents
CO Alarm
Mounting Hole Template Label
CR123A Battery (pre-installed)
User Manual
Expansion Plugs
Screws
Warranty Card

1.4 CO Levels and Symptoms
The following symptoms are associated with CARBON MONOXIDE POISONING and should be discussed with ALL household members:
Exposure Levels Symptoms
Mild Exposure Mild headache, nausea, vomiting, fatigue (often described as "flu-like" symptoms).
Moderate Exposure Strong, throbbing headache, drowsiness, confusion, rapid heartbeat.
Extreme Exposure Loss of consciousness, seizures, respiratory or cardiac failure, death.

WARNING
1. THIS DEVICE HAS BEEN DESIGNED TO PROTECT PEOPLE FROM THE ACUTE EFFECTS OF CARBON MONOXIDE. IT DOES NOT PROVIDE COMPLETE PROTECTION FOR PERSONS WITH SPECIFIC MEDICAL CONDITIONS. IN CASE OF DOUBT, CONSULT A DOCTOR.
2. MANY CASES OF CARBON MONOXIDE POISONING INDICATE THAT EVEN THOUGH PEOPLE ARE AWARE OF NOT FEELING WELL, THEY BECOME SO DISORIENTED THAT THEY ARE UNABLE TO SAVE THEMSELVES, LEAVE THE BUILDING, OR CALL FOR HELP. THIS MOST OFTEN AFFECTS SMALL CHILDREN AND PETS.

1.5 What to Do When the Alarm Activates
WARNING
Activation of the carbon monoxide (CO) alarm indicates the presence of carbon monoxide (CO), which CAN KILL YOU. If the alarm activates:
1. Press the Test/Silence Button;
2. Call emergency services;

3. Immediately move to fresh air – outside or by an open door or window. Conduct a headcount to ensure that everyone is present.

Do not re-enter the room or move away from open doors or windows until emergency services arrive, the room has been ventilated, and the alarm has returned to its normal state; 4. If after performing steps 1-3 the alarm reactivates within 24 hours, repeat steps 1-3 and call a qualified technician to check for carbon monoxide sources from fuel-burning appliances and ensure their proper operation. If problems are detected during the inspection, immediately service the appliances. Note any fuel-burning appliances that were not checked by the technician, and refer to the manufacturer's instructions or contact the manufacturer directly for safety information related to carbon monoxide and the operation of these appliances. Ensure that motor vehicles are not running in an attached garage or in the immediate vicinity of a residential building. 1.6 More specific information regarding conditions that may cause transient situations related to carbon monoxide, such as: 1. Excessive leaks or backdrafts of exhaust gases from fuel-burning appliances, caused by: a. Outdoor weather conditions, such as wind direction and/or speed, including strong gusts of wind; stagnant air in ventilation ducts (cold and humid air with long intervals between cycles). b. Negative pressure not caused by the operation of exhaust fans. c. Simultaneous operation of several fuel-burning appliances competing for limited outside air. d. Loosening of ventilation duct connections due to vibrations caused by clothes dryers, furnaces, or water heaters. e. Obstacles in atypical duct constructions exacerbate the situations mentioned above. 2. Prolonged operation of unventilated fuel-burning appliances (stove, oven, fireplace, etc.). 3. Temperature inversions that may cause exhaust gases to linger close to the ground. 4. A running vehicle in an open or closed attached garage or near the house. 2 How to read 2.1 Downloading the app 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 scan the QR code. Create an account using your valid email address. If you already have an account, make sure it is updated to the latest version. NOTE: Ensure that your smartphone supports iOS 11 or newer or Android 8.0 or newer. 2.2 App features Device test: Simply tap the "Test Device" button in the app to check the device's proper operation. Night mode: You can activate night mode in the app and set a specific time frame during which the LED will not periodically light up to avoid disturbing sleep. Device sharing: You can share the device with family members and friends. They will receive push notifications about alarms and will be able to silence the device, view historical events, etc. Push notifications: You can choose to receive push notifications in the app for any changes in the system. It is

recommended to limit push notifications, as an excess may be distracting and burden the phone, which can quickly become annoying. Additionally, the more push notifications you allow, the more energy the CO alarm will consume, which will shorten battery life. History records: To access data or check the status of the device, press the "History" button at the bottom of the screen. Disconnection notifications: This feature informs you when the alarm loses connection with the base station. Note that this notification may not be sent immediately, as the alarm reports to the cloud service center at set intervals. CO alarm warning: A dangerous level of CO has been detected, but it has not yet reached the alarm level. The app will display the message "CO Alarm Warning," and a push notification will be sent to your smartphone. Potentially hazardous conditions regarding CO levels exist. 2.3 Preparations Before connecting the device, ensure that: 1. You have the name and password of your Wi-Fi network. 2. You are using a 2.4 GHz Wi-Fi network (incompatible with 5 GHz networks). 3. Ensure that Bluetooth on your phone is turned on. NOTE: During the device setup via Wi-Fi, make sure your phone and the device are as close to the router as possible, which may speed up the setup process. 2.4 Powering on To power on the device Before use, remove the insulating film from the battery compartment to activate the device. Once powered on, the device will emit a single beep, the LCD backlight will turn on, and the LED indicator will perform 2 flashing cycles (red/yellow/green/blue). The device will then enter standby mode.

2.5 Network configuration steps

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The Link Pro carbon monoxide alarm can be connected to the base station via wireless network. When the alarm is connected to the base station, you can receive push notifications wherever you are to stay updated on the device status and silence the alarm using your smartphone. NOTE: Before adding the device to the system, ensure that the base station has been successfully added to the app.

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1. Tap “+”, select “Carbon monoxide alarms”, and then from the product list choose “Link Pro CO alarms (compatible with the SBS50 base station)”. Next, select “XC0C-MR”.
2. Follow the instructions displayed on the screen, pressing the Test/Silence button on the carbon monoxide alarm twice. The device will emit one beep, and the LED will flash quickly in blue, indicating that it is waiting to connect to the Wi-Fi network.
3. Tap “Next” to add the device. You will hear the message “Ready to add device.”

4. After a successful connection, the device will emit one beep, and the “Device added” page will appear. You can then find the carbon monoxide alarm on the device list.
5. If you want to add multiple devices to the system, repeat the above steps. NOTE: If the carbon monoxide alarm fails to connect to the network within 60 seconds, the network configuration will be automatically terminated. To re-enter network configuration, repeat the above steps.

Connecting the alarm without adding to the base station

If you do not want to add carbon monoxide alarms to the base station, you can connect them using RF technology, creating a mutually connected alarm system. However, you will not receive push notifications on your phone from the X-Sense Home Security app.

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NOTE: The XC0C-MR carbon monoxide alarm can connect with X-Sense Link Pro and Link alarms via wireless connection, without the need to connect to the base station.

How to configure and connect alarms wirelessly

All wirelessly connected X-Sense alarms contain a built-in RF module that allows wireless connection of two or more alarms in a connected device network. When one device is triggered, all connected alarms in the network will sound the alarm. The wirelessly connected X-Sense alarms include smoke detectors, carbon monoxide alarms, and alarms connected to both smoke and carbon monoxide detectors. This model is designed for wireless connection with other X-Sense alarms but is not designed for communication with wirelessly connected alarms from other manufacturers. The wirelessly connected X-Sense alarms in a multi-pack set are factory-connected, and the alarms in each set form an independent network of connected devices. If you have more than one multi-pack set, you must connect them all into one common network. Choose one multi-pack set as the network base and connect the remaining sets to it.

NOTE: The following instructions regarding wireless connection apply exclusively to the X-Sense Link Pro and Link connected alarms.

How to connect devices

1. Ensure that you are working with only two devices at the same time and that both are powered on to ensure effective connection.
2. Quickly press the Test/Silence button on one of these two devices four times. The device will emit a single beep, and the LED will slowly flash in blue, indicating that it has entered pairing mode. Quickly press the Test/Silence button on the second device twice. The device will emit a single beep, and the LED will flash quickly in blue, indicating that it is searching for a device to connect to.

3. After a successful connection and group formation, both devices will emit one beep each and automatically exit pairing mode.
4. If you want to add a third alarm to this group, quickly press the Test/Silence button on one of the previously connected two devices four times. Then quickly press the Test/Silence button twice on the third device.
5. To add additional devices, repeat step 4. It should be noted that it is sufficient to press the Test/Silence button 4 times on any device in the network and twice on the device you want to add. However, for the XH02-M model, you must press its pairing mode button located at the back, not the Test/Silence button at the front.
6. Test the alarms according to the instructions in the “Testing the alarm after installation” section. Quickly press 4 times
Quickly press twice
RF
Hold
NOTES:
1. The alarm will enter search or pairing mode for 60 seconds, during which the blue LED will flash. After 60 seconds, repeat step 2 to connect the alarms.

In case of need, press the Test/Silence Button once when the alarm is in search or pairing mode. This action will stop the blue LED from flashing, the alarm will exit pairing mode, and return to normal operation. 2. Test all wireless alarms to ensure they are networked before installation. 3. A maximum of 24 wireless alarms can be connected in the same network. 4. The model can only be connected with the same model and with other X-Sense Link Pro and Link wireless alarms connected in the network. 2.6 How to reset Quickly press the Test Button 4 times, and the device will emit a beep, and the LED will slowly flash blue. Then press and hold the Test Button, and the device will emit another beep, and the LED will flash blue quickly once. At this point, the device will exit and become a standalone device. Then reconnect it to the same or a new network. 3 How to install 3.1 Where to install The optimal carbon monoxide alarm should be installed in every room containing a fuel-burning appliance and in every bedroom. However, if the number of available carbon monoxide alarms is limited, the following guidelines should be considered when choosing the best locations for alarm installation: 1. If there is a fuel-burning appliance in the bedroom, a carbon monoxide monitor should be installed. 2. Install the alarm in rooms containing non-vented or open-flue appliances. 3. Install the alarm where occupants spend the most time. 4. In a studio apartment, the CO alarm should be placed as far away from kitchen appliances as

possible, but close to where people sleep. 5. If the appliance is in a rarely used room (e.g., a basement), the CO alarm should be placed outside that room to make it easier to hear. 3.2 Inappropriate installation locations Inappropriate locations can affect the sensitive electronic components of this alarm. To prevent damage to the device, ensure optimal operation, and avoid unnecessary false alarms, do not place CO alarms in the following locations: 1. In garages and in very dusty, polluted, or greasy places. 2. In places where smoke or vapors may occur during normal operation. 3. In poorly ventilated kitchens, garages, and basements. If possible, place CO alarms at least 1.5 m (5 feet) away from potential sources of smoke or vapors (e.g., stoves, furnaces, water heaters, heaters). 4. In places where it is not possible to maintain a distance of 1.5 m (5 feet) from potential sources of smoke or vapors. In modular, mobile, or smaller homes, it is recommended to place the CO alarm as far away from potential sources of smoke or vapors as possible. 5. At a distance of less than 1.5 m (5 feet) from any cooking appliance. 6. In areas with very high humidity. The alarm should be at least 3 m (10 feet) away from bathtubs, showers, saunas, humidifiers, vaporizers, dishwashers, laundry rooms, utility rooms, or other sources of high humidity. 7. In places where the temperature is below 4.4°C (40°F) or above 37.8°C (100°F). For example, in non-air-conditioned attics, unfinished attics, uninsulated or poorly insulated ceilings, porches, and garages. 8. In places where the air is turbulent, such as near ceiling fans, heat vents, air conditioning vents, fresh air intakes, or open windows. Excessive airflow can prevent carbon monoxide from reaching the sensors. 9. In direct sunlight. 3.3 Specific installation locations Installing a CO alarm in a room with a fuel-burning appliance (see Figure 1): 1. If mounted on a wall, it should be located at a height above doors or windows, but at least 150 mm below the ceiling. 2. The CO alarm should be installed at a horizontal distance of 1 m (3.3 feet) to 3 m (10 feet) from potential sources of carbon monoxide. 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 source of carbon monoxide. 300 mm (11.8 inches) 150 mm (5.9 inches) CO Alarm DEAD AIR ZONE DO NOT INSTALL HERE Figure 1: Installation in a room with a fuel-burning appliance 1-3 m (3.3-10 feet) Installing a CO alarm in a bedroom or room without a fuel-burning appliance (see Figure 2): 1. Install the CO alarm relatively close to the user's breathing zone. 2. Install the alarm in such a way that the LED indicator is visible when the user is near the device.

CO ALARM

LEVEL MOUNTING

Figure 2: Installation in a bedroom or room without a fuel-burning device

(installed at ceiling level)

WARNING: Due to the unique design of the product and lack of permanent mounting, it is not recommended
to install the device on the ceiling, as it may easily fall and cause injury
to individuals.

3.4 Mounting Instructions

Wall Mounting

1. Choose an appropriate installation location, referring to the section "Where to Mount."
2. Remove the informational sticker from the packaging and use it to mark the hole locations. Mark
two holes for screws according to the size and layout of the mounting holes on the back of the device. Drill
holes for screws approximately 30 mm (1.18 inches) deep using a Ø 6 mm (1/4 inch) drill bit. Note that the distance
between the centers of the two holes is 112 mm (4.4 inches).

Distance between drilling holes
112 mm (4.4 inches)
Mounting holes

3. Insert the expansion plug into the drilled hole and tap it in until the head of the plug is flush with
the wall.
4. Use two included screws or 3.5 × 25 mm countersunk screws to secure them in
the expansion plugs. Maintain a distance of 5 mm (1/5 inch) between the head of the expansion plug and
the screw, which will allow for easy mounting of the device.
5. Mount and lock the device on the wall, aligning the two mounting holes on the back of the device
with the screws in the wall.
6. Test the device by pressing the Test button to ensure it is functioning correctly.

Place on Flat Surfaces

The detector base has two built-in legs that allow it to be freely placed on
a flat surface.

Legs

WARNING: When placing the device on a shelf, please follow the mounting recommendations

described in the section "Where to Mount."

3.5 Testing the Alarm After Installation

Make sure to test the CO alarms after their initial activation. In addition to the weekly test that should be conducted regularly, it is also recommended to test the alarm after returning from
a long trip or vacation.

Single Alarm Test	Test of All Connected Alarms
Operation 1. Press the test/silence button. Hold the button	2. Tap the "Device Test" button on down.
the "Device Settings" page in the app.	
Response 1. When the LCD display lights up, the device performs	1. The device that originally
the self-check of the sensor. If a fault is detected,	triggered the alarm will
the LED will flash red twice every 60 seconds, accompanied by	emit a series of
beeping sounds, and the LED will flash	beeping sounds, and on the
red. The LCD display will show the message	LCD display, a test signal
"E03/E04." If no fault is detected, the LED will flash	will appear after 5
red 4 times continuously along with	seconds, and then it will
beeping sounds, repeating	emit a series of
for 2 cycles.	beeping sounds, while the
2. During this time, the LCD display will sequentially	LED will flash
show "---", "PASS", and then	alternately red and
the lighting will be turned off.	green. Release the
The LCD display will return to standby mode,	test/silence button, and all
indicating the correct operational state	devices will stop
of operation.	conducting the test.
3. Testing the device should	3. If a fault occurs during self-diagnosis,
be completed within 2 minutes.	the LCD display will show
4. After the test is completed, the device will automatically transition to standby mode.	

NOTE:

1. After connecting the device to the base station
and completing the test, the user's mobile app will receive a notification of
the test result, such as "Normal Operating State," "Device Malfunction," "Low

Battery Level," or "End of Service Life," along with appropriate
push notifications.
2. If the device previously triggered an alarm,
it will remember this event in the alarm memory. After the LED flashes green
at the end of the self-diagnosis, it will remain
red for 2 seconds, and the
LCD display will show the maximum measured value of the
CO alarm.
WARNING: The test function accurately checks the CO alarm sensor circuit without the need to test for the presence of CO. If your CO alarm does not emit a beeping sound during the test,
immediately refer to the "Troubleshooting" section at the end of this manual.

3.6 Battery Replacement
When the LCD display shows the message "Lb", the LED indicator blinks every 60 seconds, and the buzzer emits a beeping sound, remove the old battery and replace it with a new one. After replacing the battery and ensuring that the device is properly powered, the device will function normally. Information regarding the battery replacement indication can be found in the section "Audiovisual Indications". WARNING: Do not use rechargeable batteries, as they may negatively affect the operation of the device. To open the battery compartment cover, perform the following actions:
Hold the alarm with both hands and place your thumbs on both ends of the battery compartment cover. Then, with a firm push, slide the cover upwards to remove it. WARNING
1. KEEP NEW OR USED BATTERIES AWAY FROM CHILDREN.
2. In case of battery leakage, do not allow the liquid to come into contact with skin or eyes. If contact occurs, thoroughly rinse the affected area with plenty of water and seek medical advice immediately.
3. NEVER recharge batteries unless they are rechargeable batteries.
4. Do not mix alkaline, standard (zinc-carbon) or rechargeable batteries (Ni-Cd; Ni-MH).
5. Do not mix different types of batteries or new with used ones. Do not mix batteries from different manufacturers, with different capacities or sizes.
6. Batteries must be inserted with the correct polarity. Replacing the battery with an incorrect type may cause the safety features to be disabled. There is a risk of fire or explosion if the battery is replaced with an incorrect type.
7. Test the alarm for proper operation using the test function each time the battery is

replaced.

Overview of Functions

4.1 Test/Silence Button

The test/silence button is used to test the electronic system of the device and to silence the alarm during a warning signal. Briefly press the test button – you will hear a short beep indicating that the alarm has entered test mode. A notification will be sent to your smartphone via the app. Please refer to the section "Testing the Alarm after Installation" for further information. After the test is completed, the alarm returns to standby mode.

WARNING: After starting the test, the alarm will sound, and the LED indicator will blink red. This does not indicate the presence of carbon monoxide. If you press the test button during an active alarm, the device will enter silence mode.

4.2 CO Alarm Levels and Alarm Mode

CO Alarm Levels

This X-Sense carbon monoxide alarm is programmed to trigger an alarm signal at the following CO levels over the specified periods:

50 ppm for 60–90 minutes,

100 ppm for 10–40 minutes,

300 ppm for less than 3 minutes.

When CO is detected and the alarm is triggered, the CO level will be displayed on the LCD screen, and the backlight will be blue. The LED indicator will blink red, and the alarm will emit 4 short beeps, repeating the cycle every 5.8 seconds. The alarm notification will be sent to your smartphone via the app.

Alarm Mode

When the device detects CO and the CO level in ppm reaches a specified level for a specified time, an alarm will be triggered emitting 4 beeps every 5.8 seconds, and the LED indicator will blink red. The LCD display will be illuminated and show the current CO level, which is updated every 30 seconds. If the device is connected to a base station, the app will display a notification "CO Alarm Activated," and a push notification will be sent to the smartphone. The CO level will be displayed both in the app notification and in the push notification. You can also view the CO level in the history section of the app. When the carbon monoxide level drops below the alarm threshold, the alarm sound will be turned off. The device will then automatically return to standby mode. After the alarm has ended, a push notification will be sent to the smartphone via the app. If the device operates in a connected and configurable mode, when a smoke detector in the network is triggered, the device's LED will alternately blink red and green 3 times. When a carbon monoxide alarm is triggered in the network, the

device's LED will blink red 4 times in a row, and then light up green once.

4.3 Peak Value Memory and Reset

The peak value function for CO levels helps determine if dangerous CO levels have been recorded since the last reset. Press the peak value button once, and the device will perform a short test. The LCD backlight will illuminate and display the maximum value recorded since the last data reset of the peak value. The "Peak" indicator will appear on the left side of the LCD display. The maximum data will be displayed for 5 seconds. If no further action is taken during these 5 seconds, the device will automatically return to standby mode.

For example, 300 ppm would be the maximum carbon monoxide level recorded since the last device reset. Resetting the maximum CO level: During the 5 seconds of displaying the maximum CO level on the LCD, press and hold the Peak Value Button for 3 seconds - the device will emit a sound signal, the LED will light up green, and the maximum CO level will be reset, displaying "0" on the LCD. NOTES:

1. If the carbon monoxide level is below 30 ppm, it will not be recorded as the maximum CO level.
2. To display the maximum value, briefly press the Peak Value Button (less than 3 seconds). If the button is held down for too long (3 seconds or more), the display of the maximum value will not be triggered.

4.4 Memory Mode

If the device has triggered a carbon monoxide alarm, but the CO level has dropped and the device has automatically reset the alarm, it will retain the alarm memory. Two different states will occur, depending on whether the event took place 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 send any notifications. However, if the Test/Silence Button is briefly pressed, after the autotest is completed, the LED will remain red for 2 seconds (this effect will not occur if the autotest is performed within 24 hours). When the device has alarm memory, the user should carefully check the area where the alarm is located to identify and eliminate potential safety hazards that may have triggered the alarm, in order to prevent similar situations in the future. If the hazard has been removed or it has been confirmed that the previous alarm was false, the user can press the Test/Silence Button on the device three times in a row to clear the alarm memory. After successful clearing, the device's LED will light up red for 1 second, indicating that the alarm memory has been erased. NOTES:

1. After turning off the device, the alarm memory will be automatically cleared.

2. The device only retains the most recent alarm memory; each new alarm memory overwrites the previous record.

4.5 Silence Mode

In the case of a false alarm, it can be temporarily silenced by pressing the Test/Silence Button on the device or in the app. You will receive an immediate notification from the app confirming the temporary silencing of the device. The LED will flash red 4 times every 5.8 seconds, reminding you of the silenced alarm. The alarm will automatically exit silence mode after 9 minutes. In silence mode, if the carbon monoxide level remains above 50 ppm for 6 minutes, the device will restart; otherwise, the device will automatically exit silence mode after 9 minutes. If the CO level exceeds 300 ppm, the silence function cannot be activated. In alarm mode, pressing the Test/Silence Button on the originally activated device will silence all devices in the network (including the base station). Pressing the Test Button on a passively activated device or the button on the base station will only silence all passively activated devices (including the base station); originally activated devices will continue to signal and flash. If the device is connected to the app, in alarm mode, you can press the "Silence" button in the app to stop the sound signal. The LED will continue to flash red 4 times every 5.8 seconds. Alternatively, you can press the "Locate" button in the app to silence the base station and all passively activated devices, leaving the sound signal and flashing only on the originally activated devices, which helps users locate the source of carbon monoxide using the alarm signal. WARNING

1. The remote silencing function can only be used within the visibility range of the CO alarm.
2. In case of any doubts about the cause of the alarm, assume that it has been triggered by dangerous levels of carbon monoxide and evacuate the building.

4.6 Low Battery Mode

When the battery is low, the device will emit a single sound signal, and the LED indicator will flash 8 times every 60 seconds, signaling the need for battery replacement. A low battery notification will be sent to your smartphone via the app. After pressing the Test Button with a low battery, the sound signal will be temporarily silenced for 10 hours; however, the LED indicator will continue to flash 8 times every 60 seconds; if the Test Button is pressed again, the device will enter test mode and exit the silence mode due to low battery.

4.7 Fault mode

In the event of a device sensor failure (including a short circuit or disconnection of the sensor), the LED indicator will flash red twice every 60 seconds while emitting two alarm signals. Error code E04 indicates a short circuit, while E03 signifies a disconnection in the

circuit.

4.8 End of life mode

After reaching the maximum operational time (10 years), the alarm will emit 3 beeping signals, and the LED indicator will flash red 3 times every 60 seconds. This end of life signal can be temporarily silenced for 22 hours by pressing the Test/Silence button. During the silencing period, the LED indicator will flash red 3 times every 60 seconds. The temporary silence function for the end of life signal can be used repeatedly for 30 days. After 30 days, the end of life signal can no longer be silenced. During the temporary silence of the end of life signal, the alarm continues to monitor CO levels and provides standard protection.

5 Daily maintenance

To keep the alarm in good working condition, the following recommendations should be followed:

1. Test the alarm once a week by pressing the Test/Silence button.
2. Vacuum the alarm cover once every three months to remove accumulated dust.
3. Never use detergents or solvents to clean the alarm. Chemicals may permanently damage or temporarily contaminate the sensor.
4. Avoid spraying air fresheners, hair sprays, paints, or other aerosols near the alarm.
5. Do not paint the device. Paint may block the openings in the sensor chamber and prevent proper operation of the device.

WARNING: DO NOT MANIPULATE THE DEVICE, AS THERE IS A RISK OF ELECTRIC SHOCK OR FAILURE.

6 Audiovisual indicators

During CO detection, the LCD display will show various indicators informing about the alarm status, as shown below:

Mode Display LED Indicator Signalization Notes

LCD on

beeping

Power on Goes through 1 short beep Ensure that the

(Under lighting two cycles signal insulation film on

is on)

(red/yellow/green/blue). battery has been

removed, and the

device is powered on.

Standby mode Flashes green None. None. once every 60 seconds. (No

lighting)

Pairing mode Flashes blue 1 short beep Pairing status
(Under lighting
is on)
(After pairing Stops flashing blue. 1 short beep Device has been
with base station) successfully
(No lighting) paired with base
station.
Pairing mode Flashes blue 1 short beep Pairing status. (Devices are
(Under lighting
is on) slowly. signal
(Under lighting
is on)
Flashes blue 1 short beep Transmission status
quickly. signal during pairing. (Under lighting
is on)
Alarm mode CO level in 4 quick beeps Dangerous CO
(Under lighting
is on) the range of 50 to signals level detected,
999 ppm beeping which has reached
maintained for repeating alarm state.
a specified time. Wskaźnik 5.8 Please refer to
value. LED flashes on seconds. "What to do when
red 4 times the CO alarm
every 5.8 seconds. goes off."
Detected CO level None. Detected
(Under lighting)
in the range of dangerous CO
50 to 999 ppm, level, which has not
but for a time reached alarm
shorter than state yet.
the required period There are potentially
of detection. There are
potentially dangerous
conditions related
to CO levels. Please

immediately locate the
source of carbon monoxide.
Test mode First flashes once Beep The LED flashes on
(Under lighting
is on) in red, indicates red, and the
then 2 sets of 4 signal is emitted simultaneously. red flashes. Then 2
sets of 4 quick
beeps. Test Flashes red Continuous Alarm initially
of all devices once per second. short beeps triggered.

(Under lighting
device signal Hold
connected e connected) sound Test/mute button
on one device
in the network. Blinks Remaining alarms
alternately in passively triggered
(Under lighting
red and green in the network. e connected)
once per second. Checking value Value None. None. Under LCD
peak peak: remains on
for 5 seconds; If
Value button
Reset to peak will be
zero:
pressed and
held for
more than 3 seconds
(Under lighting
during 5-
e connected)
second display,
the device
will emit a sound
signal, the LED
will blink green

once, and existing data
will be
reset. Maximum
CO level
recorded since
the last reset. Mute mode Blinks red None. Mute mode
4 times every 5.8 CO: After 9 minutes
(Under lighting seconds. the device will exit
e connected)
mute mode. Displays
current
values. Blinks for the fourth time None. Mute mode
for 60 seconds. at low
(Low
battery level: After
under lighting)
10 hours
the device will exit
mute mode. Blinks for the fourth 3 None. Mute mode
time every 60 seconds. at the end of the cycle:
(Low
After 22 hours
under lighting)
the device will exit
mute mode. Low battery level Blinks for the fourth time 1 quick Battery must be replaced
for 60 seconds. signal immediately
(Low
sound signal replaced. under lighting)
every 60
seconds. Fault mode Blinks for the fourth 2 signals If the message
twice every 60 sound signals "E03/E04" still appears,
(Low
seconds. every 60 the device has
under lighting)
seconds. failed and must be

replaced immediately. End of operation Blinks for the fourth 3 quick The device must be
mode time every 60 seconds. signals replaced immediately.
(Low sound signals under lighting)
every 60
seconds. Memory mode Within 24 Blinks red None. The device issued
hours once every 5 seconds. an alarm within
(Low
the last 24 hours. under lighting)
After the lapse Remains None. This function can
of 24 hours red for 2 be activated
(Low
seconds. exclusively in
under lighting)
self-diagnostic mode,
if the device
detected an alarm
event at least 24 hours
earlier. 7 Troubleshooting
Serial
Number
Problem Possible causes Solution
Device cannot Open the battery compartment and remove
Device is
not powered on, and the insulating film from the battery; if
1 it does not start
nothing appears on the battery is discharged, replace it. Check what is visible on
the LCD display to determine
instead of displaying
Incorrect the cause of the problem. Causes
2 "PASS" appears
self-test. may be low battery, or
"Lb", "E03/E04" or
end of the device's
lifetime. Ensure that the button is
Button was not pressed firmly. After

pressed correctly pressing the button correctly,
No response after
pressing. you will hear sound signals or
pressing the button
on the LCD display. 3 test/mute or
Value button
peak value
Press briefly Value button
peak value. held too
peak value, do not hold it. long; it only works after
a short press. After detecting carbon monoxide When the CO level is
by the device, below 30 ppm, it is not
repeated pressing recorded
4 None. The peak value button in the historical
peak value still displays a level of "0". data values
displays a level of "0". The LCD display no longer
shows numerical values, instead
When the battery
voltage drops below
this threshold, the product
5 displays "Lb", and Replace the battery.
the LED blinks.

switches to low battery level warning mode after 60 seconds, accompanied by a single alarm signal. When the CO level exceeds 300 ppm, the device will mute during the alarm. The LCD display will no longer show numerical values, instead it will display "E03" in case of a short circuit and "E04" in case of a circuit break. The LED will blink twice every 60 seconds, accompanied by two alarm signals. The LCD display will no longer show numerical values, instead it will display "End" when the device reaches the end of its usage period. The LED will blink three times every 60 seconds, accompanied by three alarm signals. The CO level is not sufficiently high or the exposure time is too short to trigger an alarm. Ensure that the CO level is high enough or the exposure time is adequate and that the exposure time is appropriate. In the presence of CO levels, the device is not activated. Check if the appropriate error code appears on the LCD display. In such a case, the device should be replaced. The device indicates on the LCD display "0" despite the presence of CO levels

below 30 ppm. The battery is depleted. The application reports an error. The distance between the base station and the router should not exceed 50 m (164 feet). Ensure that the base station remains within the router's network range. Reduce obstacles between the alarm and the base station. The maximum distance between the devices in open space is 500 m (1,640 feet). The network connection between the router and the mobile phone is incorrect. Ensure that the network connection between the router and the mobile phone is functioning correctly. The Wi-Fi connection to the base station has been interrupted. Check if the base station is properly connected to the power supply. The battery is depleted. Replace the battery. Remove obstacles between the carbon monoxide alarm and the base station, including metal doors and thick walls. The maximum allowable distance between the carbon monoxide alarm and the base station in open space is 500 m (1,640 feet). The LCD display shows the carbon monoxide level, however the application neither sends notifications nor displays the level in the application when the CO level is below 100 ppm. To prevent frequent notifications of the preliminary alarm, which could disrupt usage and save battery, the device will not send notifications of the preliminary alarm nor display the level in the application when the CO level is below 100 ppm. However, if the CO level remains below this threshold but reaches the required time for the alarm, the carbon monoxide alarm will be triggered and standard alarm notifications will be sent. CO Alarm Limitations 1. CO alarms may not wake all individuals. If children or others do not respond to the CO alarm sound, and there are infants or individuals with limited mobility in the home, assistance should be provided in case of danger. 2. This CO alarm will not detect carbon monoxide that does not reach the sensor. It only detects CO that reaches the sensor. Carbon monoxide may also occur in other rooms. Doors or other obstacles may affect the speed at which carbon monoxide reaches the CO alarm. Therefore, if the bedroom doors are usually closed at night, it is recommended to install a CO alarm in each bedroom and in the hallway between them. 3. CO alarms may not detect carbon monoxide on another floor of the house. For example, a CO alarm on the second floor, near the bedrooms, may not detect carbon monoxide in the basement.

For this reason, one CO alarm may not provide adequate warning. It is recommended to ensure full protection by placing CO alarms on every floor of the house. 4. CO alarms may not be heard. The sound level of the alarm exceeds 85 dB at a distance of 3 m (10 feet). However, if the CO alarm is installed outside the bedroom, it may not wake a deep sleeper or someone who has recently used drugs or consumed alcohol. This is especially true if the doors are closed or partially open. Even awake individuals may not hear the alarm signal if

the sound is muffled by distance or closed doors. Noise from street traffic, stereo equipment, radios, televisions, air conditioners, or other devices may prevent nearby individuals from hearing the alarm signal. This CO alarm is not intended for hearing-impaired individuals. 5. CO alarms do not replace smoke detectors. Although fire is a source of carbon monoxide, this CO alarm does not detect smoke or fire. This CO alarm detects carbon monoxide that may escape unnoticed from faulty furnaces, appliances, or other potential sources of unsafe combustion. Installing a smoke detector is essential for early fire warning. 6. CO alarms do not replace life insurance policies. Although these CO alarms warn of increasing carbon monoxide levels, we do not provide any guarantee nor suggest that they will provide protection against carbon monoxide poisoning. Homeowners and tenants must secure their lives with insurance policies. 7. CO alarms have a limited lifespan. Although the CO alarm and all its components have undergone rigorous testing and are designed to be as reliable as possible, any of these components may fail at any time. Therefore, it is strongly recommended to test the CO alarm weekly. 8. CO alarms are not infallible. Like all other electronic devices, CO alarms have their limitations. They can only detect CO that reaches their sensors. They may not warn of rising CO levels if the CO originates from a distant part of the house or is at a certain distance from the CO alarm. 9. Statement WARNING: RF ENERGY INTERFERENCE AND PRODUCT SAFETY GUIDE Before using the device, please read this guide, which contains important instructions regarding safe operation, control information, and usage instructions ensuring compliance with RF energy exposure limits according to applicable national and international standards. Operating instructions should accompany the device when passing it on to other users. Simple EU compliance declaration X-Sense Electronics Sp. z o.o. declares that the type of radio equipment is in compliance with the essential requirements and other relevant provisions of the RED Directive 2014/53/EU, the ROHS Directive 2011/65/EU, and the WEEE Directive 2012/19/EU; The full text of the European compliance declaration is available at the following website: www.x-sense.com Environmental protection The symbol of the crossed-out wheelie bin on your product, documentation, or packaging reminds you that all electrical and electronic products and batteries or accumulators must be handed over to designated collection points after their use. These products should not be disposed of in unsorted municipal waste. Please dispose of them in accordance with the applicable regulations and standards in your region. 10. Manufacturer data and service information X-Sense Electronics Sp. z o.o. Address: Room 402, Building 4, No. 9, Jinshagang 1st Road, Shixia Village, Dalang Town, Dongguan City, 523750 Guangdong, China Email: support@x-sense.com Website: www.x-sense.com