X-SENSE

Make Invisible Risks Visible



User Manual

Smart Radon Alarm

XR0A-iR

F800004000300 V1.0

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Note: Scan the QR code on the left to view the digital manual.

1 Introduction

⚠ WARNING

Read Carefully
Read this manual before use.

Indoor Use Only
For family living units.

Do Not Disassemble
Contains calibrated components.

2 Get to Know Your Device

2.1 What's Inside the Box

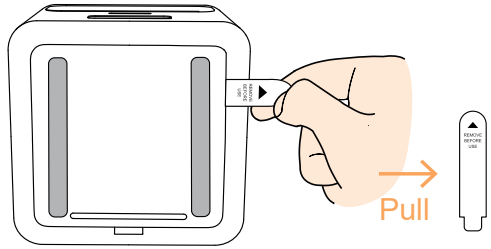
Radon Alarm
(Pre-installed removable AA battery × 3)

User Manual

Date Sticker
(5 pieces; manually filled with the start time of detection)

Guide Sticker
(Apply to the back only; avoid side air intake area)

2.2 How to Power On



Remove the insulating film.

Automatically powers on and performs a self-test; no manual setup needed.



The device is self-testing.

If an error code appears during this process, please refer to the **"Troubleshooting"** section.



LCD after the first power-on or data reset.

The figure indicates that the first set of data is being generated and is expected to be available within 24 hours. Please be patient.

2.3 How to Connect to the App

Before connecting devices, make sure that:

- Wi-Fi name + password ready
- 2.4 GHz only (not 5 GHz)
- The phone's Bluetooth turned on.

NOTE: Keep the phone near the router for faster setup. The app is continuously being updated, and the interface may vary slightly. Please refer to the latest version.

Download the X-SENSE Home Security App

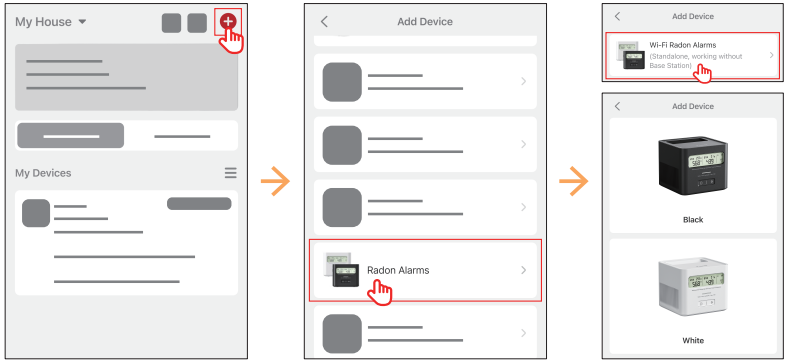
Download on the Apple App Store

GET IT ON Google Play

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

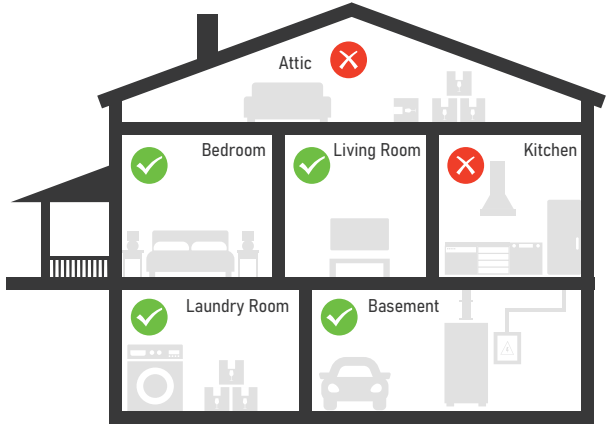
NOTE: Make sure your smartphone supports iOS 11 and higher, or Android 8.0 and higher.

Following the Steps Below to Select the Device

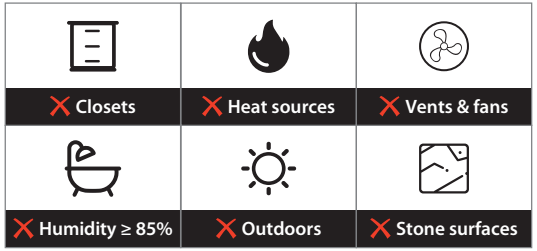


1. Tap "⊕" on the top right.
2. Select "Radon Alarms".
3. Choose "Wi-Fi Radon Alarms" and pick the color.
4. Follow the instructions in the app to complete the device setup process.

2.4 Where to Place



- Basement or lowest livable floor preferred, or any area where people are present.
- At least 3 ft (90 cm) from windows, doors, or vents.
- Most accurate when heating/cooling is running.



NOTE: Do not block the side air intake during testing.

Recommended Monitoring Duration

Because radon fluctuates, short-term radon data (less than 7 days) is not suitable for deciding the next steps.



7 days **Minimal** — minimum reliable reading

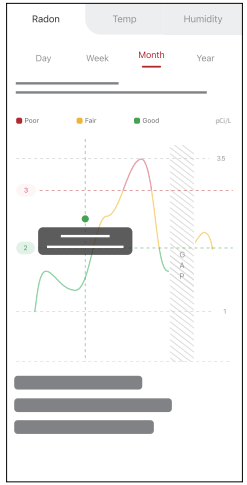
30 days **Recommended** — more accurate average

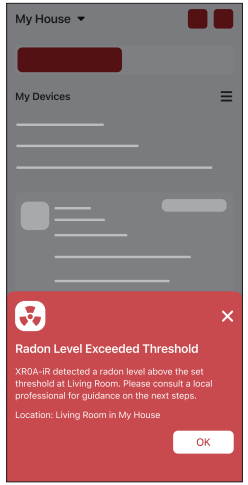
1 year **Best** — covers all seasons

Don't worry, the health threat posed by radon comes from long-term (several years) exposure to high concentrations of radon. High concentrations of radon do not pose an immediate health threat. Please be patient.

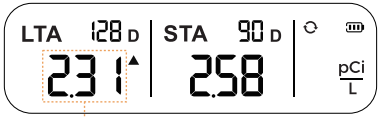
2.5 How to Interpret Data

1. View radon levels and history in the app. The app sends a notification if levels exceed the set threshold and uses different colors to show concentration. Check the app for more details.





2. If check data from the LCD, please look at the "Long-Term Average" shown below and compare it with the following table for recommended actions at different radon levels.

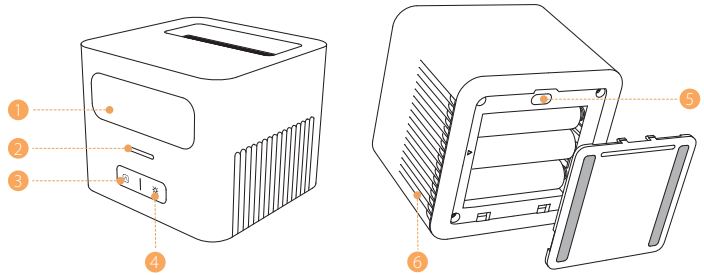


Refer to this value and compare it with the table below.

Monitoring Period	Concentration	Recommended Actions
Long-Term Average	≥4 pCi/L (148 Bq/m^3)	Seek professional advice.
	2-4 pCi/L (74-148 Bq/m^3)	Ventilation and monitoring.
	≤2 pCi/L (74 Bq/m^3)	No obvious problems found.

NOTE: Any exposure to radon carries some level of risk. There is no completely safe level of radon, and health risks still exist even when radon levels are below 4 pCi/L (148 Bq/m^3).

2.6 Understanding the Buttons and Screen Interface



1 LCD 2 LED 3 Peak Level Button
4 Backlight Button 5 Reset Button 6 Air Intake Area

Peak Level Button

- Press → MAX View peak
- Press x2 → ⇌ Switch pCi/L ↔ Bq/m^3
- Press 3s → 0 Clear peak only (when the peak level is displayed)

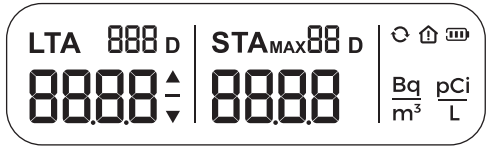
In the United States, recommend to use the unit "pCi/L" while in Europe or Canada, the unit "Bq/m^3" is recommended.

Backlight Button

- Light backlight
- Upload data now
- Enter pairing mode

Reset Button (inside battery compartment)

- Factory reset (clears all data)



LTA 888 D 8888	STA 88 D 8888	▲ — ▼	MAX
Long-term average: Updated every 24h.	Short-term average: 1/7/30/90-day intervals.	Trend: rising, falling, or stable.	Peak value mode.

Monitoring in progress.	Exceeds setting threshold.	Battery level.	pCi/L or Bq/m³ (double-tap to switch).

3 Technical Specifications

Power Supply	1.5 V (⎓) AA alkaline battery × 3 (replaceable)
Battery Life	2 years
Warranty Period	5 years
Sampling Method	Passive diffusion chamber
Measurement Method	Continuous alpha spectrometry
Detection Range	Radon: 0-500 pCi/L (0-9999 Bq/m³); Temperature: 14-122°F(-10-50°C); Humidity: 0-100%
Accuracy/Precision (95% Confidence)	< ± 10% @5.4 pCi/L (200 Bq/m³) after 7 days
Temperature and Humidity Sensor Accuracy	Temperature: ± 0.9°F (0.5°C); Humidity: ± 5% RH
Sensor Sensitivity	1.25 cph (counts per hour) per 1 pCi/L (37 Bq/m³)

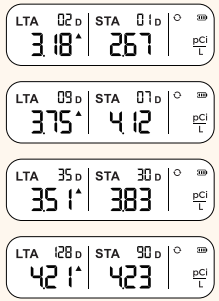
Data Update Cycle	1 hour/24 hours (Short-term average and long-term average have different update cycles).
App Data Update Interval	24 hours (reports data once every 24 hours)
Operating Temperature	14-122°F(-10-50°C)
Operating Relative Humidity	≤ 85% RH (non-condensing)
Dimensions (unit excluding package)	3.23 × 3.15 × 2.79 inches (82 × 80 × 70.8 mm)
Weight (unit excluding packaging)	10.3 oz. (292 g)

4 Troubleshooting

No.	LCD Indicator	Problem	Possible Causes	Solution
1	None.	The device cannot be powered on, and the LCD shows nothing.	The device isn't powering on properly.	Open the battery compartment and remove the battery insulating film; if the batteries run out, please replace them.
2	None.	The LED flashes blue rapidly.	Wi-Fi pairing mode is active.	Complete pairing in the app, or tap the backlight button to exit.
3		The LCD displays "Lo batt," and the LED flashes yellow once every 60 seconds.	The device has entered the low-battery mode.	Replace the batteries.

4		The LCD displays "Err 01", "Err 02", "Err 03", or "Err 05", and the LED flashes yellow twice every 60 seconds.	The device has entered the fault mode.	Restart the device. If the issue persists, please replace the device.
5		The LCD displays "End" along with a countdown in days, and the LED flashes yellow 3 times every 60 seconds.	The device has started a lifetime countdown.	Promptly record and save the detection data and replace the device once it reaches the end of its service life.
6		The LCD displays "End 00", no longer scrolls data, and does not respond to any operations.	The device has reached the end of its service life.	Replace the device.

7		The LCD displays "run" rather than the specific data.	The device has just powered on and is waiting to output the first stable data.	According to the different radon levels, the device will output the first stable data within 4-24 hours. Please wait patiently.
8	None.	After replacing the batteries, the device retains the previous data.	The data retention feature ensures that removing batteries will not erase the data.	If you need to erase the data, please press the Reset Button on the device.

9		The short-term average does not fully display all 4 measurement intervals.	The testing duration has not yet reached the required time for the next measurement interval level.	Continue to test: For example, when the device is first powered on, only the "01D" measurement interval is displayed. Once the testing time exceeds 7 days, both the "01D" and "07D" measurement intervals will be shown and scroll on the display, and so on.

5 Daily Maintenance



⚠ WARNING

1. Do not tamper — risk of malfunction.
2. Do not use in humid environments (> 85% RH).

Battery Operation

- Keep batteries away from children.
- Insert with correct polarity.
- Never mix types, brands, or old + new.
- Do not use rechargeable batteries.
- Avoid leaking battery contact. Rinse and seek medical help if exposed.
- Use only the specified battery in the marking.

6 Statement

FCC Statement

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

(1) This device may not cause harmful interference.

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

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

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

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

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

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

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

Environmental Protection

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



7 Manufacturer and Service Information

X-Sense Electronics Co., Ltd.
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Website: www.x-sense.com

Scan with X-SENSE Home Security App to add device.

X-Sense Electronics Co., Ltd.
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