

EcoQube Flex User Guide

09/16/2025

Version 1.0

1. Introduction

Ecosense is revolutionizing radon monitoring with accurate, real-time data and unrivaled technology to track fluctuating radon levels. Our patented radon solutions empower homeowners, professionals, and businesses to create healthier indoor environments, reducing the risk of radon-induced lung cancer and safeguarding homes and families.

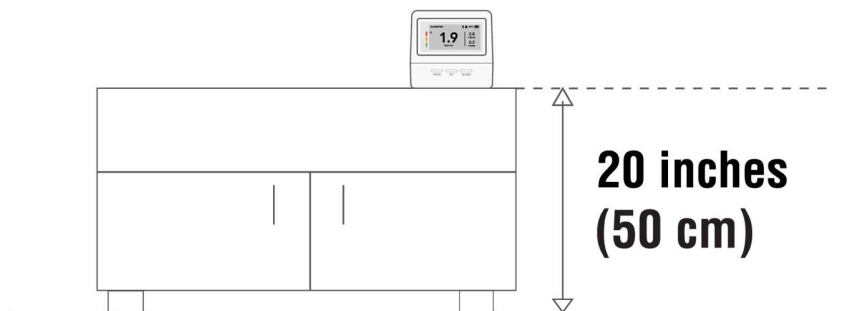
2. About EcoQube Flex

EcoQube Flex is a compact, battery-powered radon monitor that delivers accurate results within the first hour and updates every 10 minutes. With patented ion chamber technology and 30 cph/pCi/L sensitivity—15× higher than industry standards—it captures short-lived spikes and shows how daily activities affect radon levels in real time. Its always-on, low-power display reveals hourly averages, seasonal trends, and peak levels without needing the app. For deeper insights, the Ecosense app adds history tracking, guidance, and pro connections. Portable and intuitive, EcoQube Flex brings professional-grade accuracy and long-term protection into every home.

3. What's in the box

EcoQube Flex

4. EcoQube Flex Placement Guidelines



Place EcoQube Flex at least 20 inches (50 cm) above the floor and from the wall. Do not place EcoQube Flex close to open windows or vents and keep it away from high heat and high humidity.

5. Getting Started

1. Open the battery compartment on the bottom of the device.
2. Insert two AA batteries.
3. The device powers on automatically and begins monitoring.
4. Your first radon reading appears after 10 minutes.

6. Radon Monitoring Modes

Press the MODE button to cycle through display modes and view time-based averages. All data resets if the device powers off, except for long-term averages and measured days, which are preserved unless manually reset.

Mode	First Values Appear	Update Frequency	Monitoring Period	Displayed Values
Real-time (Default)	After 10 minutes	Every 10minute	Last 1hour	Highest & lowest from last 1 hour
24-Hour Average	After 24 hours	Every hour	Last 24 hour	Highest & lowest from last 24 hours
72-Hour Average	After 72 hours (3 days)	Every hour	Last 72 hour	Highest & lowest from last 72 hours
Week Average	After 168 hours (7 days)	Every hour	Last 168 hour	Highest & lowest from last 168 hours
Month Average	After 720 hours (30 days)	Every hour	Last 720 hour	Highest & lowest from last 720 hours
Long-Term Average	After 24 hours	Every hour	All collected data	Highest & lowest from all data

Total Measurement Duration	After 24 hours	Every hour	All collected measured days	Highest & lowest from all data
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7. Device Settings

Press the SET or ALARM button to adjust device settings.

1. Audio Alarm

- a. Default: Off.
- b. Beeps when radon exceeds safety thresholds.
 - i. USA: 4.0 pCi/L
 - ii. Canada/Europe: 200 Bq/m³
- c. To toggle alarm: Press the ALARM button once.

2. Set Custom Alarm Threshold

- a. Hold ALARM for 3 seconds.
- b. Press SET to adjust the threshold.
- c. Hold ALARM again for 3 seconds to confirm.
- d. Range:
 - i. 2.0 – 5.0 pCi/L (steps of 0.1)
 - ii. 100 – 400 Bq/m³ (steps of 1)

3. Measurement Units

- a. Default in USA: pCi/L
- b. Default in Canada/Europe: Bq/m³
- c. To change: Press SET.

4. Regional Radon Level Guide

- a. The displayed action level depends on the selected guideline
 - i. USA → US guideline
 - ii. Canada/Europe → CA/EU guideline
 - iii. To change the guide:
 1. Press SET for 3 seconds.
 2. Press MODE to select your region.
 3. Hold SET for 3 seconds to confirm.

5. Bluetooth Connectivity

- a. Bluetooth icon shows when connected to the Ecosense App.
- b. To disconnect: Manually disable from the device.

6. Reset Device

- a. Clears all stored data and settings (alarm, threshold, units, guide).
- b. HoLd MoDE For 10 seconds → Countdown (9 → 1) → “- -” (Ready mode).

8. Alerts and Notifications

1. When radon levels exceed the device's range, the maximum value is displayed:
 - i. Maximum value: 99.9 pCi/L (3,700 Bq/m³)
 - ii. Press MODE to exit the screen.
2. An error message will be displayed if the device malfunctions.
 - i. Press MODE to exit the screen.
3. Low Battery: Alert at 5% and below.

9. Using the Ecosense App

For detailed charts, insights, and history:

1. Download the Ecosense App from the App Store or Google Play.
2. Sign up with your email address.
3. Allow the app to access location and Bluetooth when prompted.
4. Create a Place (e.g., Living Room, Basement, Office).
5. Register your device to that Place.

● Important Notes:

- i. A device can only be registered to one Place at a time.
- ii. To move a device, re-register it under a new Place.
- iii. The old Place keeps data as History (read-only).
- iv. The new Place starts collecting fresh data.

10. Technical Specifications

Detection Type	Pulsed Ion Chamber
Radon Sensitivity	30 cph(count per hour) per 1 pCi/L (37 Bq/m ³)
First Reliable Result	Within an hour
Accuracy/Precision (95% Confidence)	< ±10% at 10 pCi/L (370 Bq/m ³) after 10 hours
Data display update	Real-time: Every 10 min, Other modes: Every 1 hour (60-min rolling average)
Measurement Range	0.2–99.9 pCi/L (7~3,700 Bq/m ³)
Monitoring Modes	Real-time, 24h, 72h, weekly, monthly, long-term (1 year)

Power supply	2AA Batteries
Connectivity	Bluetooth LE
Storage	1 year on-device + cloud backup
Operating Range	32–104°F, RH<80%
Size	3.14"(L) x 3.14" (W) x 2.95" (H)
Weight	0.518 lb (235g)

FCC COMPLIANCE

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.

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

.Part 15.105

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 equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

11. Customer Support

We are happy to help, please visit us at <https://ecosense.io/support>