

1. SAFETY INFORMATION AND WARNINGS

Radon Hazard Explanation

Radon is a radioactive gas that enters buildings through foundation cracks and openings from soil, rocks, or groundwater. Long-term exposure to high radon levels can damage lungs and is the second leading cause of lung cancer after smoking.

Intended Use Statement

This device is a portable radon detector intended for continuous monitoring of radon gas concentration in indoor air within homes and buildings. It is designed for personal, non-professional use.

General Safety Precautions

- Use the device only as described in this manual.
- Do not disassemble, modify, or attempt to repair the device.
- Keep the device away from children and pets.
- Place the detector in areas where radon may collect, such as basements, garages, or near floor cracks.

2. PACKAGE CONTENTS

Ensure the following items are included in the box:

- 1× HOUND-1011S Radon Detector
- 1× Type-C Charging Cable
- 1× Lanyard
- 1× User Manual
- 1× Stand



3. PRODUCT OVERVIEW

Device Diagram with Labeled Parts

The device is a compact, rectangular unit with an LCD screen, a single power button, and a Type-C charging port. It includes a mounting hole for the stand or lanyard.



LCD Screen Layout and Icons

The LCD screen displays the current radon concentration, unit of measurement (pCi/L or Bq/m³), battery status, and menu icons for historical data.

Button Functions

Power Button: A single multi-function button located on the device.

- **Long Press:** Powers the device on or off.
- **Short Press:** Cycles through menus to view records, change units, or set the alarm threshold when the device is on.

4. GETTING STARTED

Initial Setup

Remove the device from the packaging. Attach the stand for tabletop placement or attach the lanyard for hanging.

Charging the Device

Connect the provided Type-C cable to the device's charging port and a USB power source. The device can operate while charging for continuous monitoring.

Powering On/Off

To Power On: Press and hold the power button for approximately 2-3 seconds until the screen activates.

To Power Off: Press and hold the power button for 2-3 seconds until the screen turns off.

5. BASIC OPERATION

Placing the Detector

For accurate long-term monitoring:

- Place the device in the area you wish to monitor, such as a basement, garage, or near potential entry points like floor cracks.
- Avoid locations with direct sunlight, strong artificial light (e.g., camera flash), excessive vibration, or high humidity.
- Once placed, avoid moving the device. If moved, a new test should be started.

Starting a Measurement

After powering on and placing the device, measurement begins automatically.

Understanding the First Reading

The first radon concentration reading will appear on the LCD screen after approximately 12 hours of continuous operation.

Reading Updates

After the initial reading, the displayed radon level is updated every hour for real-time accuracy.

6. MENU AND SETTINGS

Access menus by **short pressing** the power button when the device is on.

Viewing Historical Data

Cycle through the DATA menu to view average radon concentrations for different timeframes:

- Past 12 hours (12H)
- Past 24 hours (24H)
- Past 48 hours (48H)
- Past 72 hours (72H)
- Past 96 hours (96H)
- The device can store historical data for up to 504 days.

Changing Units

Within the settings menu, you can switch the measurement unit between pCi/L and Bq/m³.

Setting the Alarm Threshold

You can set a custom radon concentration level. The device will trigger audible and visual alarms when the measured level exceeds this threshold.

7. ALARMS

Audible and Visual Alarm Description

When the measured radon level exceeds your set threshold, the device will emit an audible beep and activate a visual indicator (such as a flashing icon) on the LCD screen.

Alarm Threshold Explanation

The alarm threshold is the radon concentration level you define as the safety limit. Common recommended action levels are 4.0 pCi/L (US EPA) or 200 Bq/m³ (WHO).

What to Do When Alarm Triggers

If the alarm activates:

1. Note the displayed radon concentration.
2. Increase ventilation in the area (open windows, use fans).
3. Consider consulting a radon mitigation professional for long-term solutions if high levels persist.

8. DATA AND MONITORING

Short-Term vs. Long-Term Monitoring

The device is suitable for both:

- **Short-Term:** View trends over hours or days.
- **Long-Term:** Monitor levels over weeks and months to understand seasonal variations and long-term exposure risks. Data for up to 504 days is stored.

How to Interpret Readings

Radon levels naturally fluctuate. Focus on the long-term average (e.g., 48H, 96H) rather than a single hourly reading for a more accurate assessment of the environment.

Data Storage and Retrieval

Historical data is stored internally. Access different timeframes via the DATA menu using short presses of the power button.

9. BATTERY AND POWER

Battery Life

The built-in battery lasts up to 45 days in sleep mode when not connected to power.

Charging Instructions

Use the provided Type-C cable. The device can be used while charging.

Continuous Monitoring with Cable

For permanent installation and uninterrupted monitoring, leave the device plugged into a power source using the Type-C cable.

10. TROUBLESHOOTING

Common Issues and Solutions

Issue: The reading seems too high?

Solution: Movement may affect the first reading. Retest after stabilizing the device in its location for 12 hours.

Issue: No reading after restart?

Solution: Restarting resets the 12-hour measurement cycle. The device will begin a new test. Historical data is still accessible in the DATA menu.

Issue: Device moved accidentally.

Solution: Stabilize the device in the new desired location and start a new test. A new 12-hour initialization period is required for accurate readings.

Issue: Exposure to strong light (sunlight, flash).

Solution: Place the device in a dark area (e.g., a drawer) for 1–2 hours, then retest. Note that standard indoor lighting does not affect results.

Issue: High humidity environments.

Solution: Place a desiccant (silica gel packet) near the device's air inlet if needed, then start a new test.

11. MAINTENANCE AND CARE

Cleaning Instructions

Wipe the exterior with a soft, dry cloth. Do not use liquids, solvents, or abrasive cleaners.

Storage Recommendations

Store in a cool, dry place away from direct sunlight and extreme temperatures.

Precautions to Avoid

- **Vibration/Movement:** Avoid during measurement. Stabilize and restart test if moved.
- **Strong Light:** Avoid direct sunlight or intense flashes.
- **High Humidity:** Use in a dry environment or with a desiccant.

12. TECHNICAL SPECIFICATIONS

- **Brand:** AEGTEST
- **Model Number:** HOUND-1011S-WT
- **Color:** White
- **Measurement Range:** 0.09 to 1000 pCi/L
- **Supported Units:** pCi/L, Bq/m³
- **Sensor Type:** High-precision semiconductor sensor
- **Display:** LCD screen
- **First Reading Time:** Within 12 hours
- **Update Frequency:** Hourly
- **Data History:** Up to 504 days
- **Alarms:** Audible and visual
- **Power Source:** Built-in rechargeable battery, Type-C charging port
- **Battery Life (Sleep Mode):** Up to 45 days
- **Included Accessories:** Type-C Charging Cable, Lanyard, Stand, Manual

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.