

AIRTHINGS 224

AIRTHINGS Corentium Home Radon Gas Detector User Manual

Model: 224

1. INTRODUCTION

The AIRTHINGS Corentium Home Radon Gas Detector is a state-of-the-art, battery-operated device designed for accurate and continuous monitoring of radon gas levels in your home or workplace. This digital monitor provides real-time readings and long-term averages, allowing you to understand and track radon concentrations effectively. It is an essential tool for maintaining a healthy indoor environment and for property inspections.

This manual provides detailed instructions for setting up, operating, and maintaining your Corentium Home detector to ensure optimal performance and accurate readings.

2. PRODUCT OVERVIEW

The Corentium Home detector is designed for ease of use and reliability. Its compact size and battery operation allow for flexible placement and monitoring across various locations.

Key Features:

- **Battery-Operated:** No need for an electrical outlet, offering portability.
- **Digital Display:** Shows daily, weekly, and long-term average radon concentrations in Bq/m³.
- **Long-Term Monitoring:** Essential for accurate assessment as radon levels fluctuate naturally.
- **No Lab Fees:** Provides immediate results without the need for external lab analysis.
- **Advanced Technology:** Utilizes sophisticated algorithms for signal analysis, ensuring high accuracy.



Figure 2.1: The AIRTHINGS Corentium Home detector in hand, displaying radon levels.

The device is equipped with a clear LCD screen and simple controls for accessing information.

3. SETUP

Follow these steps to set up your Corentium Home Radon Gas Detector:

1. **Install Batteries:** The device requires three standard AAA batteries. Open the battery compartment on the back of the unit and insert the batteries, ensuring correct polarity. The device will power on automatically once batteries are installed.
2. **Initial Power-On:** Upon first power-on, the device will begin its measurement cycle. The display may show dashes or fluctuating numbers as it calibrates and gathers initial data.
3. **Placement:** Place the detector in a central location within the lowest lived-in area of your home (e.g., basement, ground floor living room). Ensure it is at least 50 cm (20 inches) from walls, doors, and windows, and at least 20 cm (8 inches) from the floor or ceiling. Avoid placing it near heat sources, direct sunlight, or in areas with high air circulation (e.g., near vents).
4. **First Reading:** The device will provide its first indication of radon levels within 24 hours. For a reliable short-term average, allow at least 7 days of continuous measurement. For long-term assessment, continuous monitoring is recommended.



Figure 3.1: Contents of the Corentium Home package, including batteries for setup.



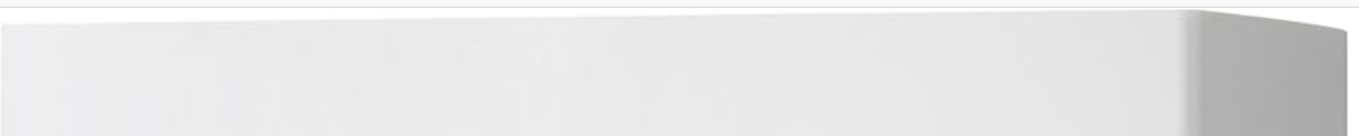


Figure 3.2: Rear view of the detector, illustrating the battery compartment and control buttons.

4. OPERATING INSTRUCTIONS

The Corentium Home detector continuously monitors radon levels and displays the results on its LCD screen.

Understanding the Display:



CORENTIUM[®]

Digital Radon Monitor

Moniteur de radon numérique



CORENTIUM[®]
Digital Radon Monitor
Moniteur de radon numérique

Measuring radon has never been easier!

Mesurer le radon n'a jamais été aussi facile!

Figure 4.1: Close-up of the Corentium Home display.

- **Long Term Average:** This is the average radon concentration since the device was last reset (or since initial power-on). This value provides the most accurate representation of your home's radon levels over time.
- **Short Term Average:** This displays the average radon concentration over the last 1 day or 7 days. You can toggle between these views using the 'Mode' button on the back of the device.

Interpreting Readings:

Radon levels naturally fluctuate daily due to factors like ventilation, temperature, and atmospheric pressure. Therefore, long-term averages are crucial for making informed decisions about radon mitigation. Health Canada recommends taking action if the long-term average radon concentration in a home is above 200 Bq/m³.

Buttons:

- **Mode Button:** Located on the back of the device. Press to switch between 1-day and 7-day short-term average displays.
- **Reset Button:** Located on the back of the device. Press and hold for 5 seconds to reset all measurements and start a new monitoring period. This is useful when moving the device to a new location or after a mitigation system has been installed.

5. MAINTENANCE

The Corentium Home detector is designed for minimal maintenance.

- **Battery Replacement:** The device is powered by 3 AAA batteries, which typically last for approximately 3 years. When the battery indicator appears on the display, replace all three batteries promptly to ensure continuous monitoring.
- **Cleaning:** Wipe the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or solvents, as these can damage the unit.
- **Calibration:** The Corentium Home detector does not require annual calibration under normal home use. Its useful life is estimated at over 10 years.

6. TROUBLESHOOTING

If you encounter issues with your Corentium Home detector, refer to the following common solutions:

- **No Display:** Ensure batteries are correctly installed and not depleted. Replace batteries if necessary.
- **Fluctuating Readings:** It is normal for radon levels to fluctuate daily. The device provides short-term (1-day, 7-day) and long-term averages to account for these variations. Rely on the long-term average for a comprehensive assessment.
- **Slow Initial Reading:** The device requires at least 24 hours to provide an initial reading and several days to stabilize for accurate short-term averages. This is part of its normal operation.
- **Inconsistent Readings Between Devices:** While Corentium Home detectors are highly accurate, slight variations between different units or professional tests can occur due to environmental factors and the nature of radon measurement. Always prioritize long-term averages for decision-making.

If problems persist, please contact AIRTHINGS customer support.

7. SPECIFICATIONS

Detailed technical specifications for the AIRTHINGS Corentium Home Radon Gas Detector, Model 224:

Specification	Value
Brand	AIRTHINGS
Model Number	224
Power Source	3 x AAA Batteries
Battery Average Life	3 years
Sensor Type	Radon
Alarm	Visual
Product Dimensions (D x W x H)	2.5D x 7W x 12.1H centimetres
Item Weight	0.15 kg
Operating Humidity	<85%
Upper Temperature Rating	40 °C
Enclosure Material	Plastic, Metal, Semiconductor
Country of Origin	Tunisia





Figure 7.1: Dimensions of the Corentium Home detector.

8. WARRANTY AND SUPPORT

Warranty Information:

For detailed warranty information regarding your AIRTHINGS Corentium Home Radon Gas Detector, please refer to the official AIRTHINGS website or contact AIRTHINGS directly. The manufacturer's warranty description states: "Please contact Airthings directly or check the Airthings website for warranty information for this product."

Customer Support:

If you have any questions, require technical assistance, or need further support, please visit the official AIRTHINGS website for contact information and resources. You can also refer to the Quick Start Guide included with your product for initial support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question