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Toolhome BG-005

Toolhome BG-005 Gray Home Radon Detector Instruction Manual

Model: BG-005

1. Introduction

The Toolhome BG-005 Gray Home Radon Detector is an advanced measuring instrument designed for ease of use and reliable performance. It provides continuous monitoring of radon levels, displaying average daily, weekly, and long-term concentrations on its LCD screen. This battery-powered device allows for flexible measurement across various locations, including homes, workplaces, schools, and basements, to help assess radon concentrations.



Figure 1: Front view of the Toolhome BG-005 Gray Home Radon Detector.

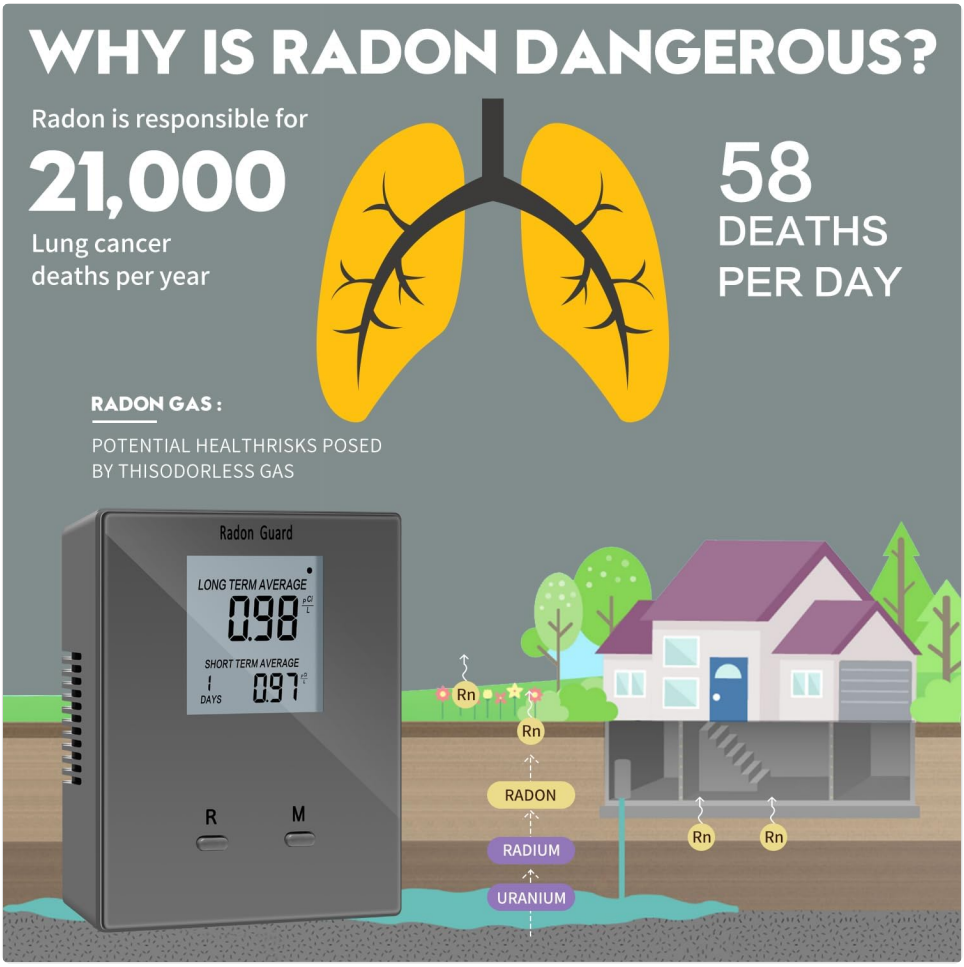


Figure 2: Infographic illustrating the health risks associated with radon gas.

2. Important Safety Information

Radon is a naturally occurring radioactive gas that can accumulate in buildings and is a known health hazard. Continuous monitoring is crucial as radon levels can fluctuate daily. This device is intended to provide an indication of radon levels. For professional assessment or mitigation, consult with certified radon professionals.

3. Package Contents

- 1 x Toolhome BG-005 Gray Home Radon Detector

Note: Batteries are not included. The device requires two AA batteries for operation.

4. Setup

1. **Install Batteries:** Open the battery compartment on the back of the device and insert two AA batteries, ensuring correct polarity.
2. **Initial Placement:** Place the radon detector in the area you wish to monitor. For initial assessment, place it in the lowest lived-in area of your home, such as a basement or first floor. Ensure it is not near drafts, windows, or vents that could affect readings.
3. **First Readings:** The device will begin monitoring immediately. Expect to see initial radon level indications within 24 hours. A stable long-term average reading typically develops after 7 days of continuous monitoring.



Figure 3: Example placement of the radon detector in a living space.



Figure 4: The detector's portable design allows for easy movement between rooms.

5. Operation

5.1 Understanding the Display

The LCD screen displays two primary readings:

- **Long Term Average:** This reading represents the average radon concentration over the entire monitoring period since the device was last reset or powered on. It provides a comprehensive view of radon exposure.
- **Short Term Average:** This reading shows the average radon concentration over a shorter, recent period (e.g., 1 day). This is useful for observing immediate changes or verifying the effectiveness of ventilation efforts.



Figure 5: Detailed explanation of the detector's display elements.

5.2 Interpreting Radon Levels

The following guidelines are based on common recommendations for radon levels:

Long Term Average (pCi/L)	Action Recommended
0 - 2	Continue to monitor regularly.
2 - 4	Consider ventilating the area and continue monitoring.
4+	Contact a certified radon professional for further assessment and potential mitigation, and continue monitoring.

Important: Radon levels can fluctuate significantly. Daily monitoring is recommended. If you observe high readings, take action as advised and re-check short-term readings to see if improvements have been effective.

Video 1: Overview of the Toolhome BG-005 Radon Detector, demonstrating its compact size and showing the important radon level interpretation sticker on the back.

6. Placement and Monitoring Recommendations

The portable nature of the Toolhome BG-005 allows for flexible monitoring. To gain a comprehensive understanding of radon concentrations, consider monitoring in various locations:

- **Basements:** Often the area with the highest radon levels.
- **Living Areas:** Frequently occupied rooms on all floors.
- **Bedrooms:** Especially those on lower levels.
- **Workplaces, Schools, Daycare Centers:** Any indoor environment where people spend significant time.

Move the device from room to room, allowing sufficient time (at least 24 hours for initial indication, 7 days for stable long-term average) in each location to gather representative data.



Figure 6: Various scenarios for effective radon monitoring.

7. Maintenance

- **Battery Replacement:** When the low battery indicator appears on the display, replace the two AA batteries promptly to ensure continuous and accurate monitoring.
- **Cleaning:** Gently wipe the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or allow moisture to enter the device.
- **Storage:** Store the device in a cool, dry place when not in use for extended periods.

8. Troubleshooting

- **Device Not Displaying Readings / Blinking Lines:** If the device shows only blinking horizontal lines or no data after initial setup, allow up to 24 hours for the first readings to appear. Ensure batteries are correctly installed and have sufficient charge.
- **Inconsistent or Unexpected Readings:** Radon levels naturally fluctuate. For a reliable long-term average, monitor for at least 7 days in a given location. If readings remain unexpectedly high or low compared to other tests, ensure the device is placed correctly (away from drafts, direct sunlight, or heat sources). Consider professional testing if significant discrepancies persist.
- **High Radon Levels Indicated:** Refer to the "Interpreting Radon Levels" table in Section 5.2. Take appropriate action, such as increasing ventilation, and consult with a certified radon professional if levels are consistently above recommended thresholds.

9. Specifications

Feature	Specification
Brand	Toolhome
Model	BG-005
Color	Gray
Power Source	Battery Powered (2 x AA, not included)
Material	Plastic
Item Weight	0.14 Kilograms (approx. 5 ounces)
Product Dimensions	2.6 x 2.9 x 3.2 inches
Included Components	Sensor
UPC	779288406148

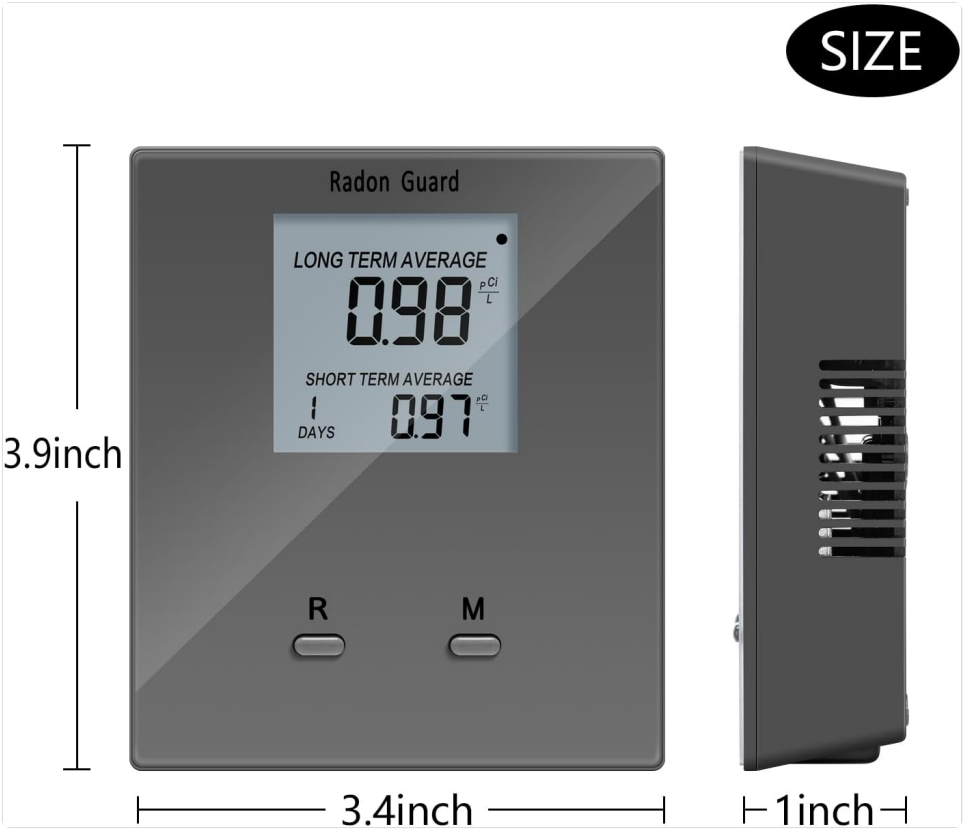


Figure 7: Physical dimensions of the radon detector.

10. Warranty and Support

Information regarding product warranty and customer support is not available in the provided data. Please refer to the product packaging or contact the manufacturer directly for details.

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Details

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

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