

LifeBasis Radon Detector with Ink Screen

Model: RN-300C; SKU: LSRM008

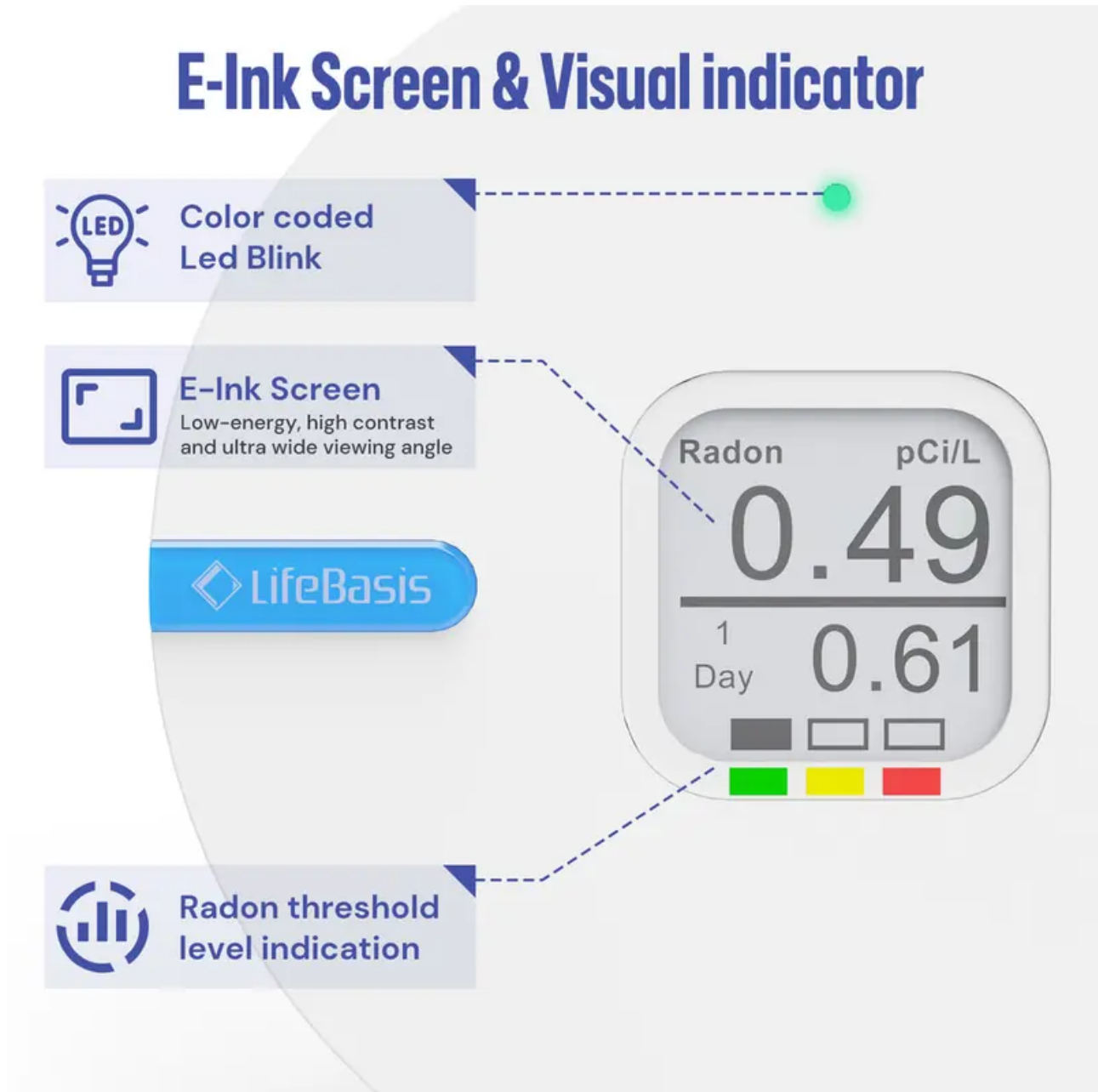
1. Introduction & Critical First Step

Congratulations on your purchase. This device provides professional-grade radon monitoring for your home or office.

⚠ BEFORE FIRST USE: You **MUST remove the transparent plastic spacer** from the battery compartment. The device will not function with this spacer in place.

2. Device Overview & Key Specifications

2.1. Front Display (E-Ink Screen)



The screen provides clear, low-power information. Here is what each element means:

- **Main Large Number (e.g., 0.49):** The primary radon reading.
- **Unit (pCi/L or Bq/m³):** The unit of measurement for the reading.
- **Day X (e.g., Day 1):** The number of days the current measurement has been running.
- **Color-Coded Bar:** A visual indicator of the radon level (Green = Low, Yellow = Moderate, Red = High).
- **Battery Icon:** Shows remaining battery power.

2.2. Rear Panel Controls

- **MODE Button:**
 - **Short Press:** Cycles through different data views.
 - **Long Press (>1 second):** Used to enter the unit setting mode or confirm selections.
- **SET Button:** Used in combination with the MODE button for certain settings (like resetting data).
- **RESET Button:** Press to **restart the instrument and clear all stored data** before starting a completely new long-term measurement. (Use with caution).

2.3. Key Specifications Table

| Feature | Specification |
|-------------------|---------------------------------------------|
| Model | RN-300C |
| Sensor | Alpha Spectrometry Sensor |
| Measurement Range | 0 - 9999 Bq/m ³ or 0 - 500 pCi/L |
| Battery | 3 x AAA (Included, ~2 year life) |
| Accuracy | ±10% after 7 days, ±5% after 2 months |

3. Step-by-Step Operating Guide

3.1. Initial Setup & Placement

1. **Install Batteries:** Insert the 3 AAA batteries, ensuring to **remove the plastic insulator spacer first**.
2. **Choose Location:** Place the detector in the lowest regularly occupied area of your home (e.g., basement family room, ground-floor bedroom).
 - Keep it 20-50 inches (0.5-1.5m) above the floor.
 - Place it at least 3 feet (1m) from exterior doors/windows and away from drafts, heat, or humidity.
3. **Do Not Move:** Once placed, **do not move the detector** during the testing period for accurate results.

3.2. How to Change the Measurement Unit (Bq/m³ or pCi/L)

Follow these steps precisely:

1. **Enter Setting Mode:** Press and hold the **MODE** button for more than 1 second. The unit display (e.g., "pCi/L") will start to blink.
2. **Select Unit:** Briefly press the **MODE** button to toggle the blinking text between the two unit options: **pCi/L** and **Bq/m³**.
3. **Confirm Selection:** Once your desired unit is displayed, press and hold the **MODE** button again for more than 1 second to confirm and save the setting.
4. **Exit:** The display will stop blinking and return to the normal reading screen with the new unit applied.

3.3. Taking a Measurement



1. **Start a Test:** For a new measurement, press the **RESET** button to clear old data. The "Day" counter will restart at 1.
2. **Wait for Accuracy:** Allow the device to run for a **minimum of 7 days** for a reliable short-term reading. For the most accurate assessment of your home's annual average (Long Term Average), allow it to run for **at least 3 months**, preferably a full year.
3. **View Data:** Use short presses of the **MODE** button to cycle through viewing the main reading, Short Term Average (STA), and Long Term Average (LTA).

4. Interpreting Results & Taking Action

The following table uses the U.S. Environmental Protection Agency (EPA) guidelines. Recommendations may vary by country.

| Radon Level | Risk Level & Color Code | Recommended Action |
|-----------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Below 2 pCi/L (< 74 Bq/ m^3) | Low (Likely Green) | Consider retesting every 2-5 years or after renovations. |
| 2 to 4 pCi/L (74 - 148 Bq/ m^3) | Moderate (Likely Yellow) | The EPA recommends considering action to reduce levels. |
| 4 pCi/L or above (≥ 148 Bq/ m^3) | High (Likely Red) | Take action. The EPA recommends installing a radon mitigation system. Contact a certified professional. |

5. Troubleshooting & Support

| Symptom | Possible Solution |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Screen is blank/unresponsive. | <ol style="list-style-type: none"> 1. Ensure the plastic battery spacer is removed. 2. Install fresh AAA batteries. |
| Readings are zero or seem incorrect. | <ol style="list-style-type: none"> 1. Ensure the detector has been active for more than 24 hours. 2. Check placement (not in a draft). 3. Do not move it during a test. |
| An "Err" code appears. | <ol style="list-style-type: none"> 1. Press the RESET button. 2. Remove and reinsert batteries. 3. If error persists, contact support. |
| Need to restart a measurement. | Press the RESET button. Warning: This deletes all data. |

Warranty & Contact: This product comes with a limited warranty. For technical support or warranty claims, please visit the official LifeBasis website: <https://lifebasis.com>.

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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.

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