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› NEWTRY Powder-Moisture Tester User Manual

NEWTRY JK-100C

NEWTRY Powder-Moisture Tester User Manual

Model: JK-100C

1. INTRODUCTION

Thank you for choosing the NEWTRY Powder-Moisture Tester. This device is engineered for precise and rapid measurement of moisture content in a wide range of materials, including various plastics, powders, and dry hay. Its advanced high-frequency technology ensures reliable results for industrial and agricultural applications. This manual provides detailed instructions for the proper setup, operation, and maintenance of your moisture meter.



Image 1.1: The NEWTRY Powder-Moisture Tester with its probe, shown alongside various plastic pellets, illustrating its primary use for material moisture measurement.

2. SAFETY INFORMATION

Please read and understand all safety precautions before operating the device to ensure safe and effective use.

- **Probe Handling:** The probe tip is sharp. Handle with care to prevent injury.
- **Electrical Safety:** Do not expose the device to water or excessive moisture. Do not attempt to measure moisture in live electrical circuits or conductive liquids.
- **Environmental Conditions:** Operate the device within specified temperature and humidity ranges. Avoid extreme temperatures and direct sunlight.
- **Storage:** Store the device in a dry, clean environment away from corrosive materials.
- **No Metal Nearby:** When performing measurements, ensure there is no metal nearby the probe, as this can interfere with readings.
- **Avoid Touching Probe:** Do not touch the probe during measurement to prevent inaccurate readings.

3. PRODUCT OVERVIEW

The NEWTRY Powder-Moisture Tester consists of a main unit with an LCD display, control buttons, a rotary dial, and a detachable probe.

3.1 Components

- **Main Unit:** Houses the electronics, display, and controls.
- **LCD Display:** Shows moisture readings and other indicators.
- **Detachable Probe:** A 9.6-inch probe for deep penetration into materials.
- **Control Buttons:**
 - **ZERO:** Used for zeroing the meter before measurement.
 - **S/D:** Likely for Data Hold or Save/Delete functions.
 - **ON/OFF:** Powers the device on or off.
- **Rotary Dial (0-10):** Used for selecting material types or correction levels.



Image 3.1: The moisture meter with its highly sensitive detachable probe, emphasizing the ease of insertion into materials for quick

and accurate humidity readings.

4. SETUP

4.1 Battery Installation

The meter requires one 9V 6F22 battery (not included).

1. Locate the battery compartment on the back of the meter.
2. Open the battery cover.
3. Insert a new 9V 6F22 battery, ensuring correct polarity.
4. Close the battery cover securely.

Note: The device has a low battery reminder for timely replacement.



Image 4.1: Rear view of the moisture meter showing the battery compartment, indicating it is powered by a 9V 6F22 battery (not included).

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **ON/OFF** button to turn the meter on or off.

5.2 Zeroing the Meter

Before each measurement, especially when changing materials or environments, it is crucial to zero the meter for accurate readings.

1. Ensure the probe is clean and not in contact with any material.
2. Press the **ZERO** button. The display should show a value close to 0.00%.
3. If the value is not 0.00%, rotate the rotary dial to adjust the display value to be between $\pm 0.05\%$. This corrects for species or material variations.

5.3 Selecting Material (Species Correction)

The rotary dial allows you to select from 10 different levels (0-10) for species correction, depending on the material being measured. This helps in achieving more accurate results for diverse materials.

1. Identify the type of material you are measuring (e.g., plastic, resin, hay).
2. Rotate the rotary dial to the appropriate setting (0-10) that best matches your material. Refer to specific material guidelines if provided by the manufacturer for optimal settings.

5.4 Taking Measurements

1. Perform the zeroing procedure as described in Section 5.2.
2. Select the appropriate material setting using the rotary dial.
3. Carefully insert the probe into the material to be measured. Ensure the first 10mm (sensitive area) of the probe is in full contact with the object.
4. Hold the probe steady. The moisture reading will appear on the LCD display within approximately 1 second.
5. Record the reading.
6. Remove the probe from the material.

Important: Avoid touching the probe during measurement and ensure no metal objects are near the probe to prevent interference.

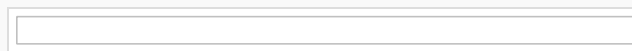


Image 5.1: Visual guide to operating the meter, showing power on, zeroing, and species correction by rotating the dial based on the material.

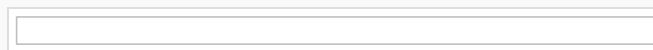


Image 5.2: Key precautions for accurate measurement, including avoiding nearby metal, zeroing before use, not touching the probe during measurement, and ensuring full contact with the material.

5.5 Video Demonstration

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Video 5.1: An official demonstration of the NEWTRY portable moisture meter, showcasing its power-on, zeroing, and measurement capabilities on various materials like soil and sand. It also highlights the 10 levels for material selection.

6. MAINTENANCE

- **Cleaning:** After each use, wipe the probe and the main unit with a clean, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the meter and probe in the provided storage bag or a protective case to prevent damage. Keep it in a cool, dry place.
- **Battery Replacement:** Replace the battery promptly when the low battery indicator appears to ensure consistent performance. Remove the battery if the device will not be used for an extended period.

7. TROUBLESHOOTING

- **No Power:**
 - Check if the battery is installed correctly.
 - Replace the battery with a new one.
- **Inaccurate Readings:**
 - Ensure the meter has been properly zeroed before measurement.
 - Verify that the correct material setting (rotary dial) is selected.
 - Make sure the probe has full contact with the material, especially the sensitive tip area.
 - Ensure no metal objects are near the probe during measurement.
 - Clean the probe tip if there is any residue.
- **Display Malfunction:**
 - Try turning the device off and on again.
 - Replace the battery.

8. SPECIFICATIONS

Feature	Detail
Measuring Range	0-100%
Accuracy	±0.1% - ±1%
Resolution	0.1% / 0.01%
Probe Length	9.6 inches (detachable)
Power Source	1 x 9V 6F22 Battery (not included)
Dimensions (Main Unit)	200 x 60 x 25 mm (7.87 x 2.36 x 0.98 inches)
Item Weight	1.7 pounds
Color	Black
Included Components	Powder moisture meter, probe, tool box

PORTABLE & COMPACT



Image 8.1: Dimensions of the NEWTRY Powder-Moisture Tester and its probe, highlighting its portable and compact design.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact the manufacturer, NEWTRY, directly or refer to the product packaging and purchase documentation. Keep your proof of purchase for any warranty claims.