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› Inkbirdplus Moisture Meter WM700 User Manual

INKBIRDPLUS WM700

Inkbirdplus Moisture Meter

MODEL: WM700 USER MANUAL

Introduction

The Inkbirdplus WM700 Digital Pin Type Moisture Meter is a precision instrument designed for fast and accurate measurement of moisture content in various materials. It is an essential tool for woodworkers, building inspectors, contractors, and homeowners to prevent material waste and identify potential moisture-related issues in structures.

This device features high-precision pins, a backlit LCD for clear readings, and 7 preset material modes to ensure accurate measurements across different material types. It also displays ambient temperature and humidity, offering comprehensive environmental data.

Professional Woodworking Tool

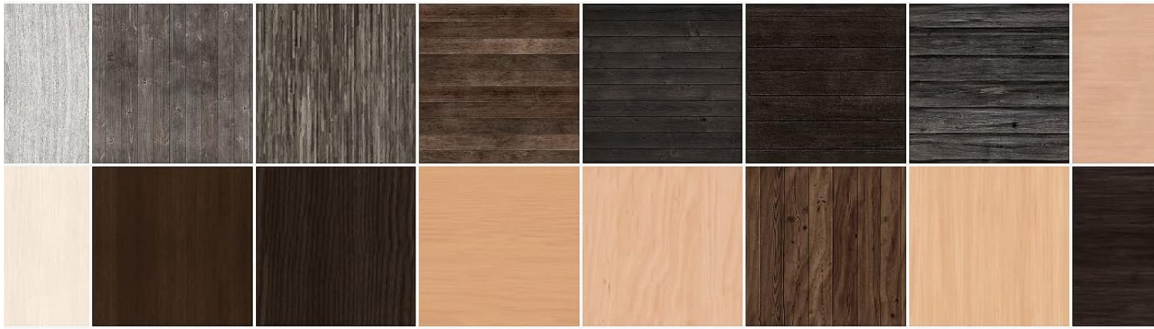
The moisture tester can accurately measure the current wood moisture when using expensive wood to make furniture and handicrafts, allowing customers to avoid breakage and waste caused by inaccurate wood moisture.



The Inkbirdplus WM700 is a professional tool for accurate moisture measurement in woodworking.

Multiple Uses

Ideal for moisture measuring of woods and construction materials.



147.0x42.0x25.0mm
5.79x1.65x0.98in



90g

The meter is suitable for multiple uses, including measuring moisture in various woods and construction materials.

Safety Information

- **Caution:** The measurement pins are sharp. Handle the device with care to avoid injury. Keep the protection cap on when not in use.
- Do not attempt to measure live electrical circuits. This device is not designed for electrical testing.
- Keep the device dry. Avoid exposure to water or excessive humidity, which can damage the internal components.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Dispose of batteries according to local regulations. Do not mix old and new batteries.

Product Overview

Familiarize yourself with the components and display elements of your Inkbirdplus WM700 Moisture

Meter.



Front and back view of the Inkbirdplus WM700 Moisture Meter, showing the display, buttons, and battery compartment.



Key components include the Electrode Protection Cap, Electrode Probe, Power Switch, SET Key, and Display Screen.



The backlit display shows Measured Moisture, Analog Value, Measuring Range Indication, Ambient Humidity, Ambient Temperature, and Temperature Unit.



A close-up view of the high-precision measurement pins and the instrument test points located on the protection cap.

Setup

Package Contents

Before first use, please verify that all items are included in the package:

Package Includes

- ① User Manual
- ② Moisture Meter
- ③ Protection Bag
- ④ Packing Box
- ⑤ 2 AAA Batteries
- ⑥ Screwdriver



The package includes the User Manual, Moisture Meter, Protection Bag, Packing Box, 2 AAA Batteries, and a Screwdriver.

Battery Installation

The Inkbirdplus WM700 requires 2 AAA batteries (included). Follow these steps to install them:

1. Locate the battery compartment on the back of the device.
2. Use the included screwdriver to open the battery compartment cover.
3. Insert 2 AAA batteries, ensuring correct polarity (+ and -).
4. Replace the battery compartment cover and secure it with the screw.

Operating Instructions

Basic Measurement

To take a moisture reading:

1. Remove the protective cap from the measurement pins. The cap also contains 4 datum test points for calibration.



Carefully remove the protection cap before taking measurements.

2. Press the **MODE** button to turn on the device.
3. Select the appropriate material mode (MAT1-MAT7) by pressing the **SET** button repeatedly until the desired mode is displayed. Refer to the 'Material Mode Selection' section for details.

- Carefully insert the measurement pins into the material you wish to test. Ensure both pins fully penetrate the surface for an accurate reading.



Insert the pins into the material to obtain a moisture reading.

- Read the moisture percentage displayed on the LCD screen.
- After use, remove the pins from the material and replace the protective cap.
- The device will automatically turn off after 10 seconds of inactivity to save power. You can also press and hold the **MODE** button to manually turn it off.

Material Mode Selection

The WM700 offers 7 preset material modes (MAT1 to MAT7) to optimize measurement accuracy for different types of materials. Press the **SET** button to cycle through these modes. Refer to the table below for material types and their corresponding measurement ranges:

7 Preset Modes For Different Materials

Press the SET button to switch between 7 material modes.

1. Beech, Spruce, Larch, Birch, Cherry, Walnut	5.0~73% Weight Ratio
2. Oak, Pine, Maple, Ash Tree, Douglas Fir, Willow Eucalyptus	4.9~82% Weight Ratio
3. Afrormosia, Rubber Tree, Imbuia, Niove Bidinkala, Cork, Particleboard	3.7~62% Weight Ratio
4. Anhydrous Gypsum Mortar Layer	0.1~17% Weight Ratio
5. Cement Mortar Layer, Concrete	2.7~80% Weight Ratio
6. Lime Mortar, Gypsum	0.5~2.9% Weight Ratio
7. Brick	0.3~2.6% Weight Ratio

Select the appropriate material mode (MAT1-MAT7) for accurate readings.

Mode	Material Type	Measurement Range (Weight Ratio)
MAT1	Beech, Spruce, Larch, Birch, Cherry, Walnut	5.0~73%
MAT2	Oak, Pine, Maple, Ash Tree, Douglas Fir, Willow Eucalyptus	4.9~82%
MAT3	Afrormosia, Rubber Tree, Imbuia, Niove Bidinkala, Cork, Particleboard	3.7~62%
MAT4	Anhydrous Gypsum Mortar Layer	0.1~17%
MAT5	Cement Mortar Layer, Concrete	2.7~80%
MAT6	Lime Mortar, Gypsum	0.5~2.9%
MAT7	Brick	0.3~2.6%

Temperature and Humidity Display

The WM700 also displays ambient temperature and humidity. To switch between Celsius (°C) and

Fahrenheit (°F) temperature units, press and hold the **SET** button for approximately 2 seconds while the device is on.



**Ambient
Temperature & Humidity**
°C/°F Selection



The meter displays ambient temperature and humidity, with an option to switch between Celsius and Fahrenheit.

Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Always replace the protective cap over the pins when the meter is not in use. Store the meter in its protection bag in a dry, dust-free environment.
- **Battery Replacement:** If the battery low indicator appears on the display, replace both AAA batteries promptly to ensure accurate readings.
- **Calibration:** The protection cap includes 4 datum test points. Periodically test the meter against these points to ensure its accuracy. If readings are inconsistent, refer to the troubleshooting section or contact support.

Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on	Dead or incorrectly installed batteries.	Check battery polarity or replace with new AAA batteries.
Inaccurate readings	Incorrect material mode selected; pins not fully inserted; device needs calibration.	Ensure correct material mode is selected. Insert pins fully. Use the datum test points on the cap to calibrate before use.
Display is dim or flickering	Low battery power.	Replace batteries.
No reading or "OL" displayed	Material moisture is outside the measurement range; pins not making contact.	Ensure pins are firmly inserted. Check if the material's moisture content is within the specified range for the selected mode.

Specifications

Feature	Detail
Model	WM700
Measurement Principle	Electrical Resistance
Measurement Range (Wood)	1% ~ 82% (depending on wood type)
Measurement Range (Building Material)	0.1% ~ 80% (depending on material type)
Accuracy	Up to 0.1% resolution
Material Modes	7 preset modes
Display	Backlit LCD
Ambient Temperature Range	0°C to 50°C (32°F to 122°F)
Ambient Humidity Range	10% to 90% RH
Power Supply	2 x AAA batteries (1.5V)
Auto Power Off	10 seconds of inactivity

Feature	Detail
Dimensions	1.65"W x 5.79"H (42mm x 147mm)
Weight	5.6 ounces (158.7g)

Warranty and Support

Inkbirdplus products are manufactured to high-quality standards and are warranted against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Inkbirdplus website.

If you encounter any issues or have questions regarding the operation or maintenance of your WM700 Moisture Meter, please contact Inkbirdplus customer support. Our team is available to assist you with technical support and service inquiries.

Contact Information: Please refer to the contact details provided on the product packaging or the official Inkbirdplus website for the most up-to-date support information.