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› Smart Sensor AS971 Wood Moisture Meter User Manual

Road Far AS971

Smart Sensor AS971 Wood Moisture Meter User Manual

Model: AS971 | Brand: Road Far

1. INTRODUCTION

The Smart Sensor AS971 Wood Moisture Meter is a precision instrument designed to accurately measure the moisture content of various wood materials. Equipped with a large LCD display and multiple tree type selection modes, it provides reliable and quick readings, making it an essential tool for professionals and DIY enthusiasts alike. This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your AS971 moisture meter.



Figure 1: Front view of the Smart Sensor AS971 Wood Moisture Meter.

2. SAFETY INFORMATION

- Do not attempt to measure live electrical circuits with the meter. The probes are sharp and conductive.
- Keep the device away from water and high humidity to prevent damage.
- Do not expose the meter to extreme temperatures or direct sunlight for prolonged periods.
- Remove batteries if the device will not be used for an extended period to prevent battery leakage.
- Handle the probes with care to avoid injury. Always replace the protective cap when not in use.

3. PRODUCT FEATURES

- Wide and precise measurement range: Wood 2%~70% RH.
- High resolution: 0.5% \pm (1%RH+0.5).
- Accuracy: \pm 0.5%.
- Stable performance and quick response time.
- Large LCD display for clear readings.
- Multiple tree type selection modes for enhanced accuracy.

- Data hold function to freeze readings.
- Temperature measurement: 0~40°C / 32~99°F.
- Low battery indication.

4. PACKAGE CONTENTS

- Smart Sensor AS971 Wood Moisture Meter
- Protective Probe Cap
- User Manual (this document)

Note: 3 x 1.5V AAA batteries are not included and must be purchased separately.

5. SETUP

5.1 Battery Installation

1. Locate the battery compartment cover on the back of the meter.
2. Slide the cover open in the direction indicated by the arrow.
3. Insert three (3) 1.5V AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 2: The meter with its protective probe cap removed, revealing the measurement probes.

6. OPERATING INSTRUCTIONS



Figure 3: Labeled diagram of the Smart Sensor AS971 Wood Moisture Meter components.

6.1 Power On/Off

- To power on the meter, press the **Power ON/OFF/Date Hold button** (labeled 'Power ON/OFF/Date Hold button' in Figure 3).
- To power off the meter, press and hold the **Power ON/OFF/Date Hold button** for approximately 2 seconds. The meter will also automatically power off after a period of inactivity to conserve battery life.

6.2 Taking a Measurement

1. Remove the protective cap from the test probes.
2. Ensure the meter is powered on.
3. Carefully insert the two test probes into the material you wish to measure. Ensure both probes penetrate the material sufficiently for accurate contact.
4. The moisture content percentage will be displayed on the **LCD Display**.
5. After measurement, remove the probes and replace the protective cap.

6.3 Tree Type Selection

The meter offers four different tree type modes to ensure accurate readings for various wood densities. Press the **Tree Type Selection Button** (labeled 'Tree Type Selection Button' in Figure 3) to cycle through the modes:

- **Type 1:** 2%~40% (e.g., Teak, Walnut, Afrormosia, Rubber Tree, Imbuia, Kokrodua, Niove Bidinkala, Cork)

- **Type 2:** 2%~50% (e.g., White Poplar, Keruing, Beech, Cedar, Tola, Larch, Birch, Fir, Elm, Douglas Fir, Maple, Ash, Oak, Pine, Ramin, Spruce)
- **Type 3:** 2%~60% (e.g., Lauan, Ash, Elm, Fir, Maple, Oak, Padauk, Cherry, Hemlock, Afromosia, Poplar, Beech, Cedar, Tola, Larch, Birch, Douglas Fir, Pine, Ramin, Spruce)
- **Type 4:** 2%~70% (e.g., Linden, Larch, Pine, Birch, Fir, Elm, Douglas Fir, Maple, Ash, Oak, Ramin, Spruce)

Select the appropriate type based on the wood material being measured for optimal accuracy.

6.4 Temperature Unit Selection

To switch between Celsius (°C) and Fahrenheit (°F) temperature units, press the **°C/°F Button** (labeled '°C/°F Button' in Figure 3).

6.5 Data Hold Function

To freeze the current reading on the display, briefly press the **Power ON/OFF/Date Hold button** during a measurement. The 'HOLD' icon will appear on the display. Press the button again to release the hold function and resume live readings.

7. MAINTENANCE

- **Cleaning:** Wipe the meter with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. Always replace the protective cap over the probes when storing.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Dispose of old batteries responsibly.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity or replace with new AAA batteries.
Inaccurate readings.	Incorrect tree type selected; probes not fully inserted; probes dirty or damaged.	Select correct tree type; ensure probes are fully inserted; clean probes; inspect for damage.
Display is dim or flickering.	Low battery power.	Replace batteries.

9. SPECIFICATIONS

Parameter	Value
Model	AS971
Display	Large LCD Display

Parameter	Value
Measurement Range (Wood)	2%~70% RH (depending on tree type)
Resolution (Moisture)	0.5% \pm (1%RH+0.5)
Accuracy (Moisture)	\pm 0.5%
Temperature Range	0~40°C / 32~99°F
Resolution (Temperature)	1°C / 2°F
Probe Length	11mm / 0.43"
Power Supply	3 * 1.5V AAA Battery (Not Included)
Operating Environment	Temperature: 0~40°C, Relative Humidity: 0~70%
Storage Environment	Temperature: -10~50°C, Relative Humidity: 0~70%
Item Size	Approx. 130 * 50 * 27mm / 5.12 * 1.97 * 1.06in
Item Weight	Approx. 76g / 2.69oz
Material	ABS Plastic

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided by your retailer or the manufacturer's official website. Keep your purchase receipt as proof of purchase for any warranty claims.