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ETURBEV HT633

ETURBEV HT633 Digital Moisture Meter User Manual

Model: HT633

1. Introduction

The ETURBEV HT633 Digital Moisture Meter is a high-precision instrument designed to measure the moisture content of various materials, including wood and building materials. It also provides ambient temperature and humidity readings. Featuring a 2.4-inch LCD with a color-coded backlight, this device offers clear and intuitive feedback on moisture levels, aiding in material assessment and drying processes.

2. Safety Information

- Always operate the product within the specified parameters to ensure accurate readings and prevent damage.
- The measurement pins are sharp. Handle with care to avoid injury. Keep out of reach of children.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity for extended periods.
- Do not attempt to disassemble or modify the meter. Refer all servicing to qualified personnel.
- Remove batteries if the device will not be used for a long time to prevent leakage.

3. Package Contents

Please check the package contents upon receipt to ensure all items are present and undamaged:

- 1 x ETURBEV HT633 Wood Moisture Meter
- 1 x Wrench
- 2 x Spare Measurement Pins
- 1 x User Manual (English)

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.

3. Insert three (3) 1.5V AAA alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Measurement Pin Installation/Replacement

The HT633 comes with pre-installed measurement pins. If replacement is needed, use the provided wrench and spare pins.

1. Carefully remove the protective cap from the top of the meter.
2. Use the provided wrench to unscrew the existing pins.
3. Insert the new spare pins and tighten them securely with the wrench.
4. Replace the protective cap after use to prevent damage to the pins and ensure safety.



Figure 1: HT633 with protective cap removed, displaying measurement pins.

5. Operating Instructions

5.1 Power On/Off

- Press the **Power button** (usually marked with a power symbol) to turn the device on.
- Press and hold the **Power button** to turn the device off.
- The device features an automatic shutdown function to conserve battery power after a period of inactivity.

5.2 Display Overview



Figure 2: HT633 Main Display Interface.

The 2.4-inch LCD displays moisture content, ambient temperature, ambient humidity, battery status, and selected material type. The backlight color changes based on moisture levels:

- **Green Backlight**: Indicates low moisture content (displaying 'D').
- **Orange Backlight**: Indicates moderate moisture content (displaying 'M').
- **Red Backlight**: Indicates high moisture content (displaying 'W').

5.3 Material Selection

The HT633 has built-in characteristic parameters for 7 different types of wood and building materials. Press the **'M' button** to cycle through material types A to G.

Table 1: Material Types and Measurement Ranges

Material Type	Measurement Range	Accuracy
Material A	9.0% ~ 57.0%	±2.0%
Material B	7.0% ~ 52.0%	±2.0%
Material C	0.9% ~ 23.0%	±2.0%
Material D	0.0% ~ 12.0%	±2.0%
Material E	0.7% ~ 9.0%	±2.0%
Material F	0.5% ~ 10.0%	±2.0%
Material G	0.0% ~ 17.0%	±2.0%

Selecting the correct material type is crucial for accurate moisture readings.

5.4 Taking a Measurement

1. Ensure the protective cap is removed and the pins are exposed.
2. Select the appropriate material type using the **'M' button**.
3. Carefully push the measurement pins into the material to be tested. Ensure both pins penetrate the surface.
4. Read the moisture content displayed on the LCD. Observe the backlight color for a quick indication of moisture level.
5. For consistent results, take multiple readings in different spots on the material.

5.5 Measurement Functions

- **Single Point Measurement**: The default mode, displaying the current moisture reading.
- **Multi-point Average Measurement**: Take several readings, then press the **'AVG' button** (if available, or refer to manual for specific button) to calculate the average.
- **Maximum and Minimum Measurement**: Press the **'MAX/MIN' button** to view the highest and lowest readings recorded during a measurement session.
- **Data Hold**: Press the **'H' button** to freeze the current reading on the display. Press again to release.

5.6 Ambient Temperature and Humidity Measurement

The HT633 also measures ambient temperature and humidity. These readings are continuously displayed on the upper part of the LCD. Press the **'°C/°F' button** to switch between Celsius and Fahrenheit temperature units.

6. Maintenance

- **Cleaning**: Wipe the device with a soft, dry 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 pins when not in use.
- **Battery Replacement**: Replace batteries when the low battery indicator appears on the display to ensure accurate readings.
- **Pin Replacement**: If the measurement pins become dull or damaged, replace them using the provided spare pins and wrench as described in Section 4.2.

7. Troubleshooting

Table 2: Common Issues and Solutions

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with new AAA batteries.
Inaccurate moisture readings.	Incorrect material type selected; pins not fully inserted; damaged pins.	Ensure correct material type is selected. Push pins firmly into the material. Replace damaged pins.
Display is dim or flickering.	Low battery power.	Replace batteries.
Automatic shutdown occurs too quickly.	Normal function to save power.	Press the power button to turn it back on. This setting is usually not adjustable.

8. Specifications

Table 3: Technical Specifications

Parameter	Value
Model	HT633
Shell Material	ABS
Material Humidity Range	0.0% ~ 57.0% (varies by material type)
Material Humidity Accuracy	±2.0%
Ambient Temperature Range	-20.0°C ~ 60.0°C (-4.0°F ~ 140°F)
Ambient Temperature Accuracy	±1.5°C
Ambient Humidity Range	0.0% ~ 99.9% RH
Ambient Humidity Accuracy	±5.0% RH
Use Environment	-10°C ~ 50°C / 20% ~ 90% RH
Storage Environment	-10°C ~ 60°C / 20% ~ 90% RH

Parameter	Value
Power	3 x 1.5V AAA Alkaline battery (not included)
Display	2.4-inch LCD with Red/Orange/Green backlight
Item Size	14.2 x 5.8 x 2.6 cm (5.59 x 2.28 x 1.02 inches)
Item Weight	50 Grams (1.76 ounces)

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact ETURBEV customer service through your purchase platform or the official ETURBEV website. Please have your model number (HT633) and purchase date available when contacting support.
Keep your purchase receipt as proof of purchase for warranty claims.

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