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› HABOTEST HT633 Portable Multifunctional Digital Wood Moisture Detector User Manual

BRAWL ATHLETIX HT633

HABOTEST HT633 Portable Multifunctional Digital Wood Moisture Detector User Manual

Model: HT633

1. INTRODUCTION

The HABOTEST HT633 is a portable, multifunctional digital meter designed for accurate measurement of moisture content in various materials, primarily wood and paper products. It also features capabilities to measure ambient temperature and relative humidity. This device is suitable for a range of applications including woodworking, construction, and home improvement, providing reliable data for professionals and DIY enthusiasts. Its compact design ensures ease of use and portability.

2. SAFETY INFORMATION

- Always handle the device with care to prevent damage.
- Keep the measurement pins covered with the protective cap when not in use to avoid injury and protect the pins.
- Do not attempt to measure live electrical circuits with this device.
- Avoid exposing the device to extreme temperatures, high humidity, or corrosive environments.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.
- Do not disassemble or modify the device; refer servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Portable Multifunctional Digital Display Wood Moisture Detector (HABOTEST HT633)
- Protective Cap
- User Manual

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your HABOTEST HT633 moisture detector.

Red, orange and green, three-color backlit screen

Automatically match the backlight of the
appropriate color according to the moisture content



Figure 4.1: Front view of the HABOTEST HT633 with key components labeled. This image illustrates the LCD display, measurement pins, protective cap, and various control buttons including Power on/off, Max/Min data key, Temperature unit selection key, Measure material category selection key, and Data hold key.

- **Measurement Pins:** Used to penetrate the material for moisture content measurement.
- **Protective Cap:** Covers the measurement pins when the device is not in use.
- **LCD Display:** Digital screen showing moisture content, temperature, humidity, and other indicators.
- **Power Button ():** Turns the device on or off.
- **MAX/MIN Button:** Toggles between maximum, minimum, and current readings.
- **°C/°F Button:** Selects the temperature unit (Celsius or Fahrenheit).
- **M Button (Material Category):** Cycles through different material categories (A, B, C, D, etc.) for accurate moisture measurement.
- **H Button (Hold):** Freezes the current reading on the display.

5. SETUP

5.1 Battery Installation

The HABOTEST HT633 requires 3x1.5V batteries for operation. To install or replace batteries:

1. Locate the battery compartment cover on the back of the device.
2. Open the cover by sliding or unscrewing it (refer to the diagram if available on the device).
3. Insert the 3x1.5V batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

5.2 Powering On/Off

Press the (Power) button to turn the device on. Press and hold the button again to turn it off. The device may also feature an auto-power-off function to conserve battery life.

6. OPERATING INSTRUCTIONS

6.1 Measuring Moisture Content

To measure the moisture content of a material:

1. Remove the protective cap from the measurement pins.
2. Turn on the device using the Power button.
3. Press the **M** button to select the appropriate material category (A, B, C, D, etc.) for the material you are testing. Refer to the device's internal material index for specific categories.
4. Carefully insert the measurement pins into the material. Ensure good contact for accurate readings.
5. Read the moisture content displayed on the LCD screen.
6. After measurement, remove the pins and replace the protective cap.

HABOTEST

High precision

Specialized sensor React quickly and measure moisture content



Figure 6.1: The HABOTEST HT633 displaying high precision measurements for temperature, humidity, and material moisture content. The specialized sensor ensures quick and accurate readings.

6.2 Measuring Ambient Temperature and Humidity

The device automatically displays ambient temperature and relative humidity on the upper part of the LCD screen when powered on.

- To switch between Celsius (°C) and Fahrenheit (°F) for temperature, press the °C/°F button.

HABOTEST

Moisture tester hygrograph

Besides measuring material moisture, it can also measure ambient humidity and temperature.

-20C° 60C° 0.0%RH 99.9%RH



Figure 6.2: The HABOTEST HT633 features a three-color backlit screen that changes based on moisture content. Green indicates low moisture, orange indicates moderate moisture, and red indicates high moisture content, providing a quick visual reference.

6.3 Using MAX/MIN Function

Press the **MAX/MIN** button to view the maximum or minimum moisture reading recorded during a measurement session. Press again to cycle through MAX, MIN, and current readings.

6.4 Data Hold Function

Press the **H** button to freeze the current reading on the display. This is useful for recording measurements in hard-to-reach areas. Press the **H** button again to release the hold function.

7. MEASUREMENT CATEGORIES

The HABOTEST HT633 offers multiple material categories (A, B, C, D, E, F, G, H, I, J) to ensure accurate moisture measurement for different types of wood and building materials. These categories are typically pre-calibrated for specific material densities and compositions.

To select a category, press the **M** button repeatedly until the desired category is displayed. Refer to the device's internal material

index or a separate reference chart (if provided with the product) to match the category letter with your specific material type.



Figure 7.1: The HABOTEST HT633 is capable of multi-material measurement, allowing users to select from various categories to accurately assess moisture content in different wood types and building materials.

8. MAINTENANCE

8.1 Cleaning

Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure the measurement pins are clean and free of debris after each use.

8.2 Storage

When not in use, always replace the protective cap over the measurement pins. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

Detachable probe

A stainless steel probe and a pair of pliers are provided for easy replacement



Figure 8.1: The HABOTEST HT633 showing its protective cap, which should always be used to cover the measurement pins when the device is not in use, ensuring safety and protecting the pins from damage.

8.3 Detachable Probes

The measurement pins are detachable and replaceable. If pins become damaged or worn, they can be replaced. Refer to the manufacturer's guidelines for replacement parts and instructions.

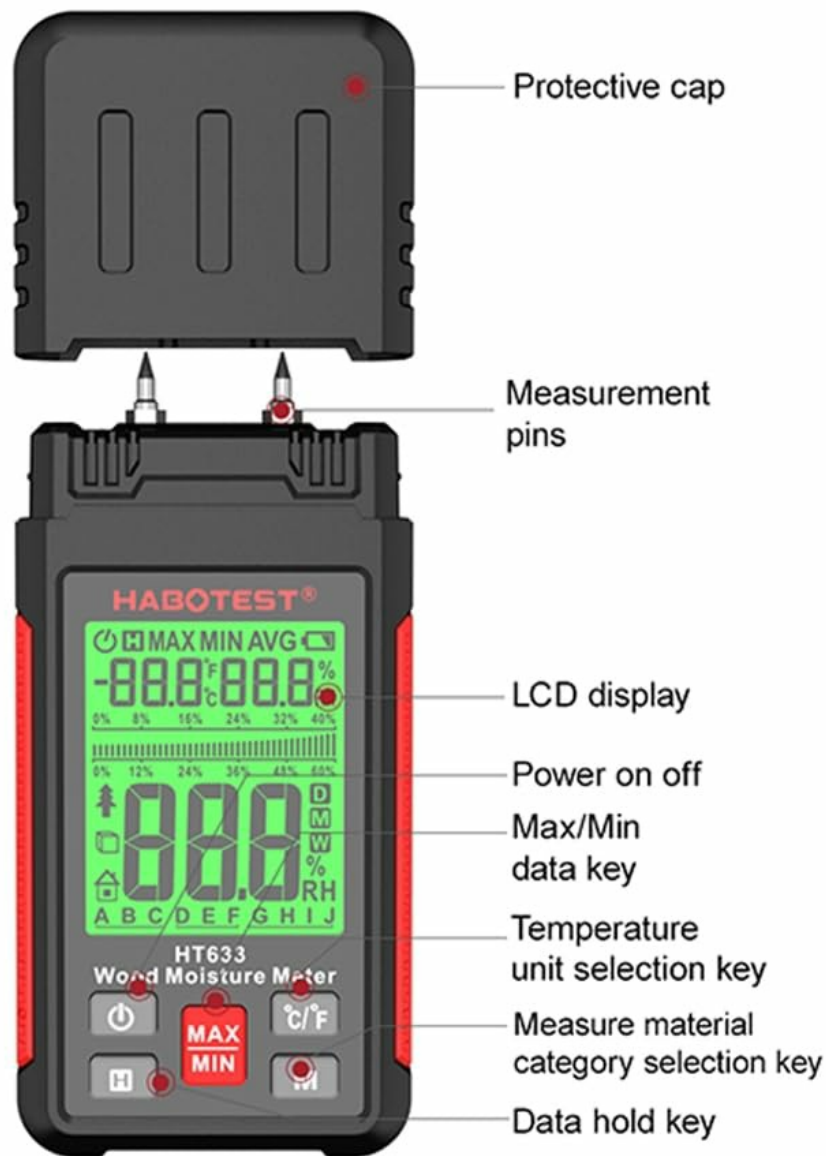


Figure 8.2: The HABOTEST HT633 features detachable probes, allowing for easy replacement if they become worn or damaged. A tool, such as pliers, may be used for this process.

9. TROUBLESHOOTING

- **No Display/Device Not Turning On:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate Readings:** Ensure pins are fully inserted into the material and making good contact. Verify the correct material category is selected. Clean pins if dirty.
- **Display Flashing/Error Message:** This may indicate a measurement out of range or a device malfunction. Refer to the specific error codes in a more detailed technical manual if available, or contact support.
- **Pins Not Penetrating Material:** Ensure the material is not excessively hard. Do not force the pins, as this may damage them or the device.

10. SPECIFICATIONS

Feature	Specification
Brand	BRAWL ATHLETIX (Product: HABOTEST)
Model	HT633
Wood Moisture Measurement Range	0 ~ 58.0%
Wood Moisture Accuracy	±2%
Ambient Temperature Measurement Range	-20 ~ 60°C
Relative Humidity Measurement Range	0.0 ~ 99.9% RH
Relative Humidity Accuracy	±5.0% RH
Power Supply	3 x 1.5V Batteries
Product Dimensions	5.8W x 14.2H Centimeters
Item Weight	240 Grams
Operating Humidity	0.0 ~ 99.9% RH
Manufacturer	Trendhaul
ASIN	B0DSCCB79Q
Item Part Number	EDA0041679

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your proof of purchase for any warranty claims.

