

F-NIRSi™ 菲尼瑞斯

WMT-10

# 感应式木材水分检测仪

## INDUCTIVE WOOD MOISTURE METER



## USER INSTRUCTIONS

- This manual provides detailed instructions on how to use the product, along with precautions and related matters. Please read the manual carefully before using the product to ensure optimal performance.
- Do not use the instrument in flammable or explosive environments.
- Disposal of replaced batteries and discarded instruments should comply with relevant national or local laws and regulations and should not be disposed of with household waste.
- If the instrument encounters any quality issues or if you have any questions regarding its usage, please contact "FNIRSI" online customer service or the manufacturer. We will promptly assist you with a solution.

## 1. PRODUCT INTRODUCTION

"The 'WMT-10' inductive wood moisture meter features a 2.4-inch high-definition color screen, designed to assist the wood processing industry and wood users in accurately measuring the moisture content of wood. This product supports four measurement modes: hardwood, softwood, plaster wall, and brick wall. It also includes data storage and viewing functions, providing users with convenient data management and analysis experiences. Its simple operation, convenient management, and accurate measurement make it an ideal choice for the wood industry, helping to improve production efficiency and product quality."

## 2. PANEL INTRODUCTION



| Button                                                                                                    | Button Operation | Interface          | Function                 |
|-----------------------------------------------------------------------------------------------------------|------------------|--------------------|--------------------------|
|                          | Short Press      | /                  | Power On                 |
|                                                                                                           |                  | Settings Interface | Return to Previous Page  |
|                                                                                                           | Long Press       | /                  | Power Off                |
| <b><u>HOLD</u></b><br>   | Short Press      | Main Interface     | HOLD                     |
|                                                                                                           |                  | Settings Interface | Select Left/Up           |
|                                                                                                           | Long Press       | /                  | /                        |
|                          | Short Press      | Main Interface     | Switch Mode              |
|                                                                                                           |                  | Settings Interface | OK/Confirm               |
|                                                                                                           | Long Press       | /                  | Enter Settings Interface |
| <b><u>SAVE</u></b><br> | Short Press      | Main Interface     | Data Save                |
|                                                                                                           |                  | Settings Interface | Select Right/Down        |
|                                                                                                           | Long Press       | Main Interface     | Toggle Flashlight On/Off |

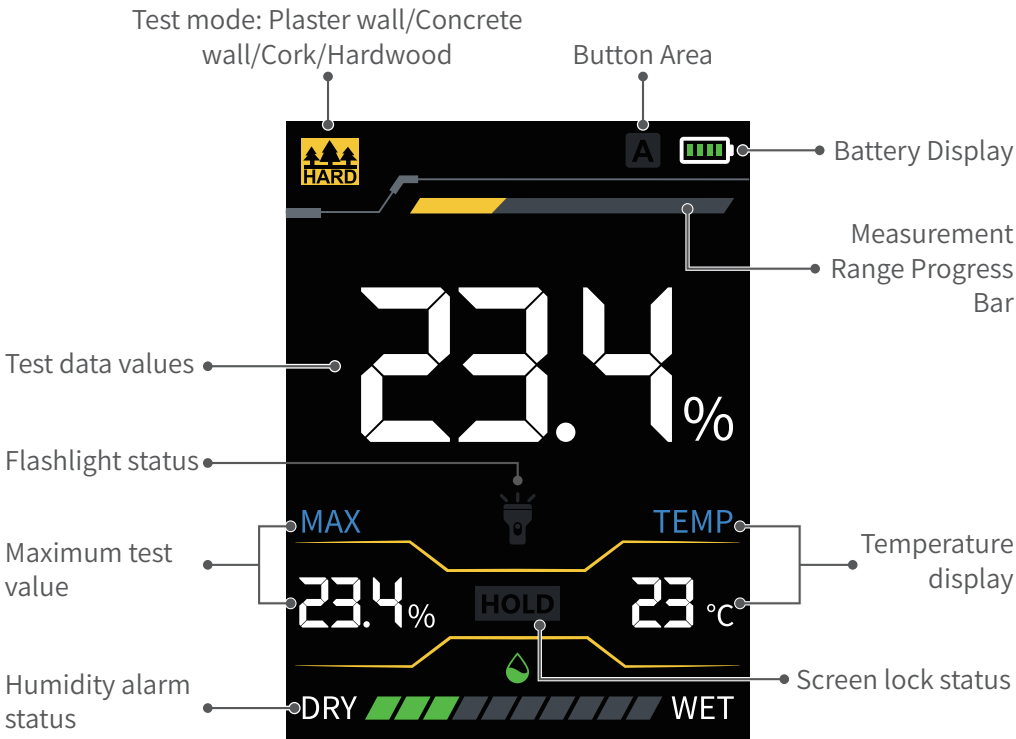


### 3. PARAMETER INTRODUCTION

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Model                     | WMT-10                                                                         |
| Screen                    | 2.4 Inch                                                                       |
| Display Resolution        | 0.1%                                                                           |
| Maximum Sensing Depth     | 17mm                                                                           |
| Sensor Size               | 40.5x40.5 (mm)                                                                 |
| Operating Temperature     | 0~40℃                                                                          |
| Measurement Range         | Plaster Wall: 0~25%    Brick Wall: 0~43%<br>Softwood: 0~75%    Hardwood: 0~75% |
| Maximum Measurement Range | 0~75.0%                                                                        |
| Error Range               | ±1.5%                                                                          |

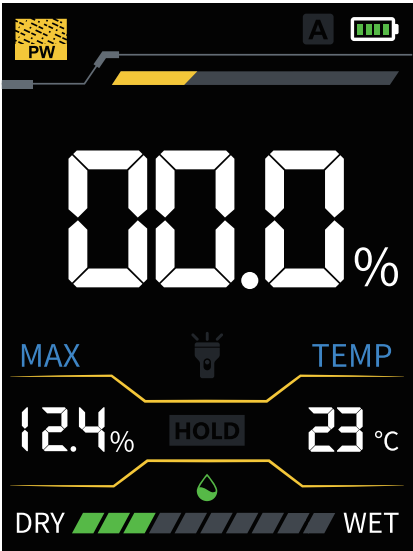
# 4. OPERATION INSTRUCTIONS

## 4.1 Main Interface

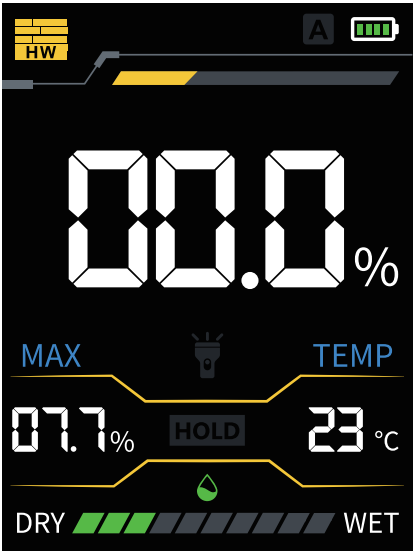


## 4.2 Test Mode

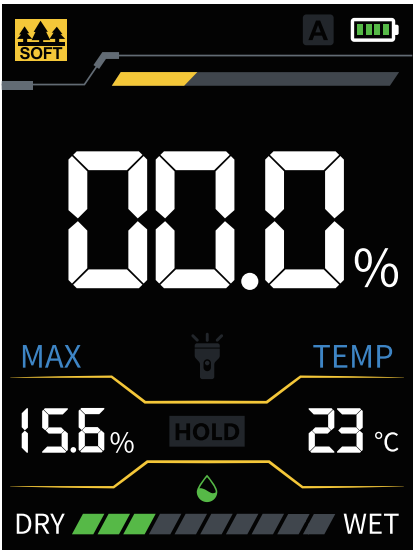
Switch modes on the main screen by short-pressing the OK button.



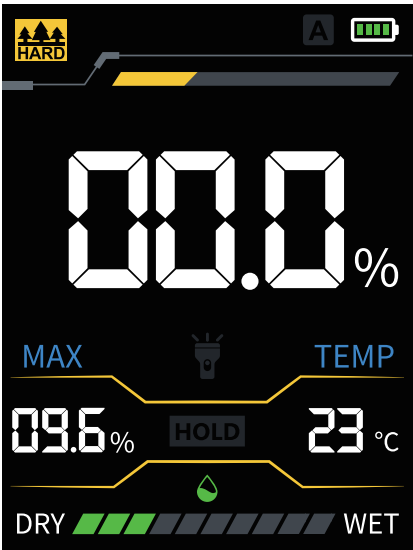
Plaster Wall Test Mode



Concrete Wall Test Mode



Cork Test Mode

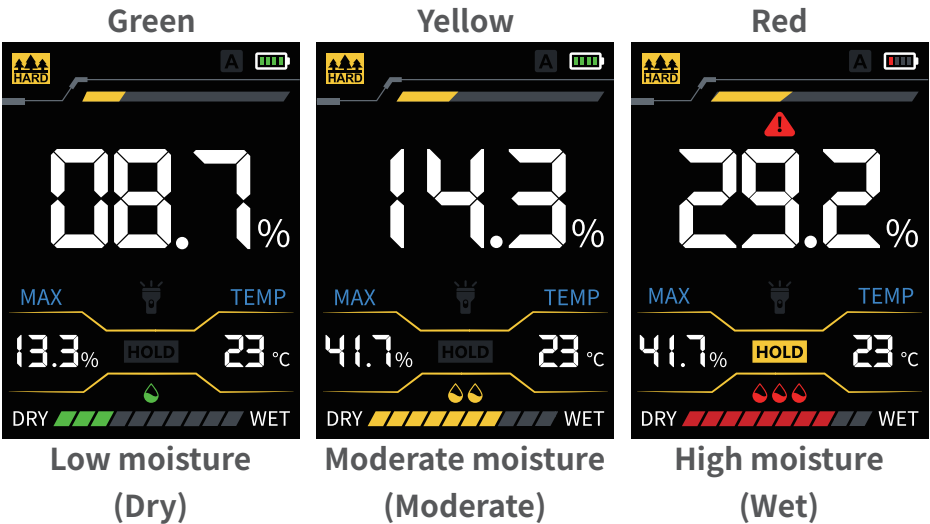


Hardwood Test Mode

### 4.3 Humidity Alarm Reference Table

| Moisture Content Level | Dry<br> | Moderate<br> | Wet<br> |
|------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Plaster Wall           | <8%                                                                                      | 8%-12%                                                                                        | >12%                                                                                     |
| Concrete Wall          | <13%                                                                                     | 13%-21%                                                                                       | >21%                                                                                     |
| Cork                   | <20%                                                                                     | 20%-26%                                                                                       | >26%                                                                                     |
| Hardwood               | <12%                                                                                     | 12%-16%                                                                                       | >16%                                                                                     |

### 4.4 Humidity Alarm

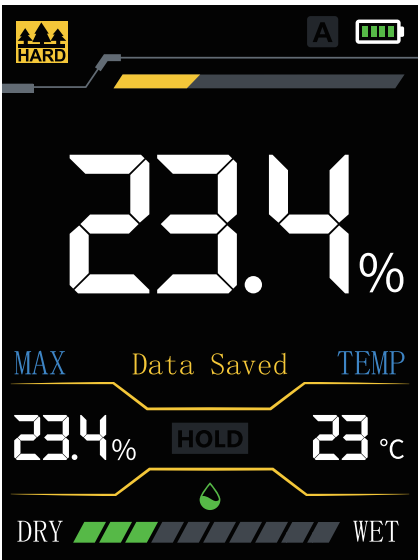


### 4.5 Data Saving

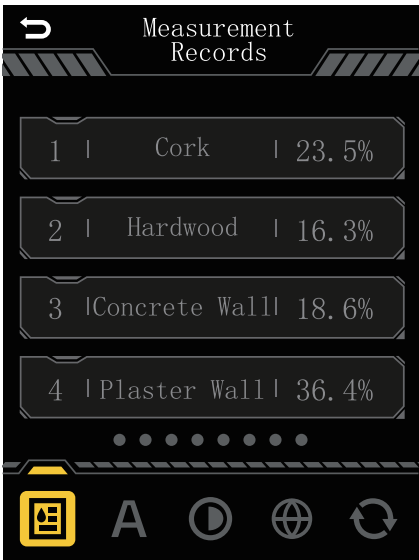
Press the **SAVE** button on the main screen to save data. The main screen will display "Data Saved" once saved.

#### Viewing Measurement Records:

- Long-press the **OK** button on the main screen to enter the settings page.
- Short-press the **OK** button to highlight the screen.
- Use the ◀ and ▶ buttons to flip through pages.
- Up to 30 measurement records can be stored.
- Exceeding 30 records will automatically overwrite earlier measurement data.
- Press the ⏻ ↶ button to return to the previous page.



Data Saving Interface



Data Viewing Interface

## 4.6 Automatic Shutdown

On the settings page, press the ◀ / ▶ button to enter the setting selection.



- Press the **OK** button briefly to highlight the screen.
- Use the ◀ and ▶ buttons to select the time.
- Press the **OK** button again to confirm the selection.
- Press the ⏻|↶ button to return to the previous page.

## 4.7 Brightness/Sound Settings

On the settings page, press the ◀ / ▶ button to enter the setting selection.



- Press the **OK** button briefly, and the screen will highlight.
- Use the ◀ and ▶ buttons to select sound/brightness.
- Press the **OK** button again, and the option will be highlighted.
- Use the ◀ and ▶ buttons to adjust the size.
- Press the ⏻|↶ button to return to the previous page.

## 4.8 Language Settings

On the settings page, press the ◀ / ▶ button to enter the setting selection. Currently, only support Chinese/English switching.



## 4.9 恢复出厂设置

On the settings page, press the ◀ / ▶ button to enter the setting selection.

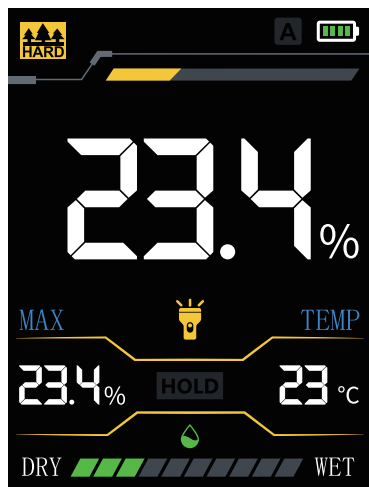


### ! NOTE

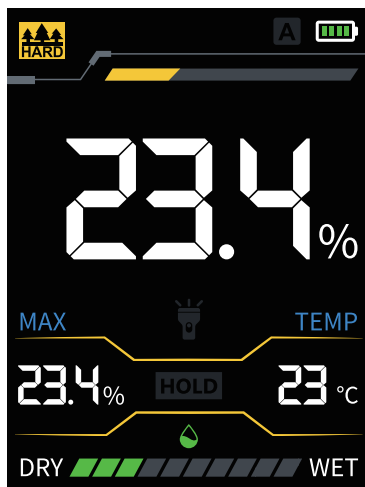
After performing a factory reset, all data will be deleted and restored to default settings.

## 4.10 Flashlight Switch

Long-press the  $\frac{\text{SAVE}}{\blacktriangleright}$  button on the main screen to turn on the flashlight. Long-press the  $\frac{\text{SAVE}}{\blacktriangleright}$  button again to turn off the flashlight.



开启状态

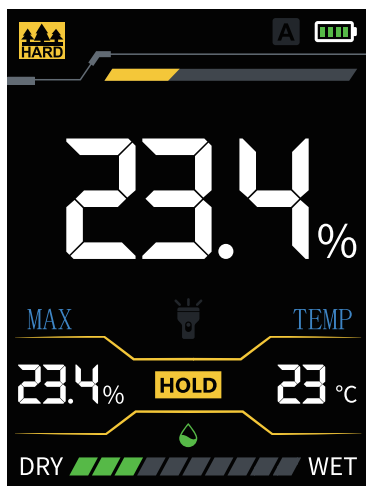


关闭状态

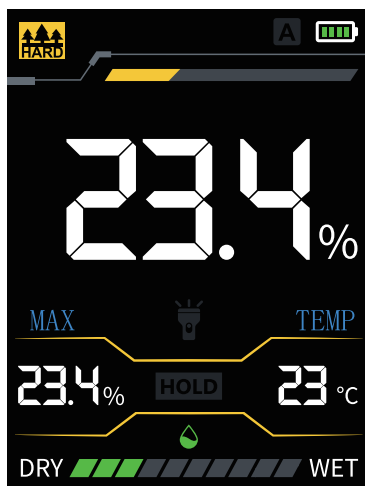


#### 4.11 HOLD Data Hold Lock Operation

Press the  $\frac{\text{HOLD}}{\blacktriangleleft}$  button briefly on the main screen to lock the current measurement result. Press the  $\frac{\text{HOLD}}{\blacktriangleleft}$  button briefly again to unlock.



Lock Status



Unlock Status

#### 4.12 Charging Indicator Light

While charging, the red light will be displayed. When fully charged, the green light will be displayed.

### 5. FIRMWARE UPGRADE

- Long-press the  $\frac{\text{OK}}{\text{gear icon}}$  and  $\text{power icon} | \text{refresh icon}$  buttons in the power-off state to enter the firmware upgrade page.
- Connect the device to the computer using a data cable.
- A popup folder will automatically appear on the computer. Copy the firmware version downloaded from the official website into the popup folder.
- The firmware upgrade will be completed automatically, and the device will restart.

## 6. PRECAUTIONS

- Avoid getting the instrument wet or in contact with any corrosive liquids to prevent damage to the instrument.
- If there are water droplets or dirt on the surface of the material, please dry the surface before testing.
- There should be no hands or metal objects under the sensor, as this can cause measurement errors.
- Due to the uneven distribution of moisture within the object being measured, different surfaces of the same object may contain different amounts of moisture, resulting in varied measurement results.
- Please use the voltage within the specifications provided in the user manual for charging.
- For USB firmware upgrades, do not drag in any files other than the released firmware, as this may lead to irreparable consequences.

## 7. PRODUCTION INFORMATION

**Any FNIRSI's users with any questions who comes to contact us will have our promise to get a satisfactory solution +an extra 6 months warranty to thanks for your support!**

**By the way, we have created an interesting community, welcome to contact FNIRSI staff to join our community.**

**Shenzhen FNIRSI Technology Co., LTD.**

**Add.:** West of Building C, Weida Industrial Park, Dalang Street, Longhua District, Shenzhen, Guangdong

**E-mail:** [fnirsiofficial@gmail.co\(Business\)](mailto:fnirsiofficial@gmail.co(Business))/

[fnirsiofficialcs@gmail.com\(Equipment service\)](mailto:fnirsiofficialcs@gmail.com(Equipment service))

**Tel:** 0755-28020752 / +8613536884686



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