

F-NIRSi 菲尼瑞斯

WMT-10

感应式木材水分检测仪

INDUCTIVE WOOD MOISTURE METER



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用户须知

- 本手册详细介绍了产品的使用方法、注意事项以及相关事项,在使用产品之前,请详细阅读手册,以便发挥产品的最佳性能。
- 不要在易燃、易爆的环境中使用仪器。
- 仪器更换的废旧电池和报废的仪器不可与生活垃圾一同处理请按国家或者当地的相关 法律规定处理。
- 当仪器出现任何质量问题或者对使用仪器有疑问时,可联系“菲尼瑞斯-FNIRSI”在线客服或厂家,我们将在第一时间为您解答。

一、产品简介

“WMT-10”感应式木材水分检测仪采用2.4英寸高清彩屏,旨在帮助木材加工行业和木材使用者精确测量木材的湿度。该产品支持硬木、软木、粉墙、砖墙四种测量模式,同时具备数据保存和查看功能,为用户提供便捷的数据管理和分析体验。其简单操作、便捷管理和准确测量使其成为木材行业的理想选择,有助于提高生产效率和产品质量。

二、面板介绍



按键	按键方式	界面	功能
	短按	/	开机
		设置界面	返回上一页面
	长按	/	关机
HOLD 	短按	主界面	HOLD
		设置界面	向左向上选择
	长按	/	/
	短按	主界面	切换模式
		设置界面	确认键
	长按	/	进入设置界面
SAVE 	短按	主界面	数据保存
		设置界面	向右向下选择作用
	长按	主界面	打开/关闭手电筒

三、参数介绍

款式	WMT-10
屏幕	2.4寸
显示分辨率	0.1%
最大感应深度	17mm
感应器尺寸	40.5x40.5 (mm)
工作温度	0~40℃
测量范围	粉墙:0~25% 砖石:0~43% 软木:0~75% 硬木:0~75%
最大测量范围	0~75.0%
误差范围	±1.5%

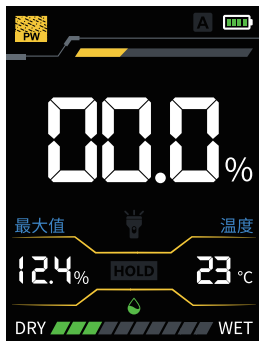
四、操作说明

4.1 主界面

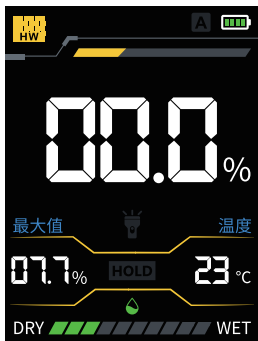


4.2 测试模式

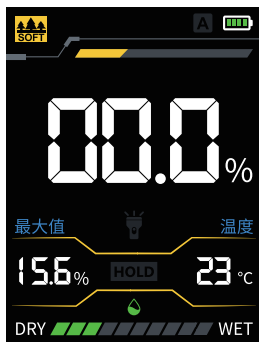
在主页面通过短按 OK 键进行切换模式



粉墙测试模式



混泥土墙测试模式



软木测试模式



硬木测试模式

4.3 湿度报警对照表

水分含水量等级	干 	适中  	湿   
粉墙	<8%	8%-12%	>12%
混泥土墙	<13%	13%-21%	>21%
软木	<20%	20%-26%	>26%
硬木	<12%	12%-16%	>16%

4.4 湿度报警



绿色:水分低(干)



黄灯:水分一般(中)



红色:水分高(湿)

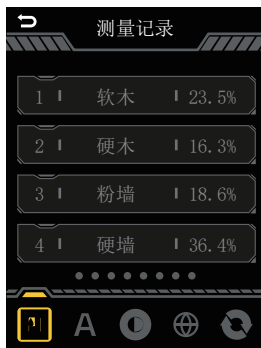
4.5 数据保存

在主页面短按 **SAVE** 键保存数据,主页面显示数据已保存
测量记录查看:

- 在主页面长按 **OK** 键进入设置页面
- 短按 **OK** 键,画面进入高亮页面
- 通过 **◀** 和 **▶** 进行翻页查看
- 最多可以记录30条测量记录
- 超过30条将会自动覆盖前面的测量数据
- 短按 **⏻** 或 **↶** 键进行返回上一层页面



数据保存界面



数据查看界面

4.6 自动关机

在设置页面短按 ◀ / ▶ 键进行设置选择



- 短按 **OK** 键, 画面进入高亮页面
- 通过 ◀ 和 ▶ 进行时间选择
- 再次短按 **OK** 键, 进行选择确定
- 短按 电源|↶ 键进行返回上一层

4.7 亮度/声音设置

在设置页面短按 ◀ / ▶ 键进行设置选择



- 短按 **OK** 键, 画面进入高亮页面
- 通过 ◀ 和 ▶ 进行声音/亮度选择
- 再次短按 **OK** 键, 选项进入高亮页面
- 通过 ◀ 和 ▶ 进行大小调节
- 短按 电源|↶ 键进行返回上一层

4.8 语言设置

在设置页面短按 ◀ / ▶ 键进行设置选择, 目前仅支持中/英文切换



4.9 恢复出厂设置

在设置页面短按 ◀ / ▶ 键进行设置选择



⚠ 注意

恢复出厂设置之后, 所有数据将被删除恢复到默认设置

4.10 手电筒开关

在主页面长按 $\frac{\text{SAVE}}{\text{▶}}$ 键, 将开启手电筒, 再次长按 $\frac{\text{SAVE}}{\text{▶}}$ 键, 将关闭手电筒



开启状态



关闭状态

4.11 HOLD数据保持锁定操作

在主页面短按 $\frac{\text{HOLD}}{\text{◀}}$ 键, 将会锁定当前测量结果, 再次短按 $\frac{\text{HOLD}}{\text{◀}}$ 键, 将解除锁定状态



锁定状态



解除锁定状态

在锁定状态下, 切换测试模式/ 进入设置页面操作都会自动解除锁定状态

4.12 充电提示灯

充电中显示红灯, 充满则显示绿灯

五、固件升级

- 在关机状态下长按  和  键进入固件升级页面
- 使用带有数据传输的数据线接入设备和电脑
- 电脑将会自动出现弹窗文件夹, 将在官方下载的固件版本复制进弹窗文件夹即可
- 固件升级完成将会自动重启

六、注意事项

- 不要让仪表碰到水或任何具有腐蚀性的液体, 以免损坏仪表;
- 若材料表面有水滴或污物, 请将表面擦干净之后再行测定;
- 传感器下方, 不得有手和金属等物, 否则会造成测量误差;
- 由于水分在被测物体内的不均匀分布, 同一被测物体的不同面所含的水分也不同, 因此, 所测出的结果也会不同;
- 请使用说明书规格范围内的电压进行充电;
- USB固件升级禁止拖入除发布固件以外的文件, 否则极可能造成不可以恢复之后果。

七、生产信息

产品名称:感应式木材水分检测仪

品牌/型号:FNIRSI/WMT-10

服务电话:0755-28020752

生产商:深圳市菲尼瑞斯科技有限公司

网址:www.fnirsi.cn

地址:广东省深圳市龙华区大浪街道伟达工业园C栋西边8楼

执行标准:GB/T 1927.4-2021

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



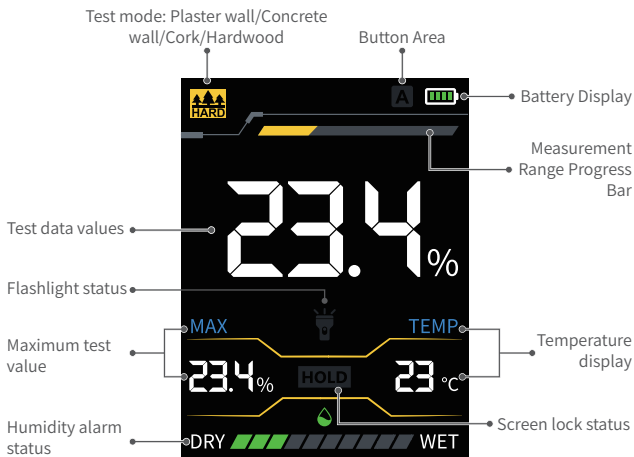
Button	Button Operation	Interface	Function
	Short Press	/	Power On
		Settings Interface	Return to Previous Page
	Long Press	/	Power Off
	Short Press	Main Interface	HOLD
		Settings Interface	Select Left/Up
	Long Press	/	/
	Short Press	Main Interface	Switch Mode
		Settings Interface	OK/Confirm
	Long Press	/	Enter Settings Interface
	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°C
Measurement Range	Plaster Wall: 0~25% Brick Wall: 0~43% Softwood: 0~75% Hardwood: 0~75%
Maximum Measurement Range	0~75.0%
Error Range	±1.5%

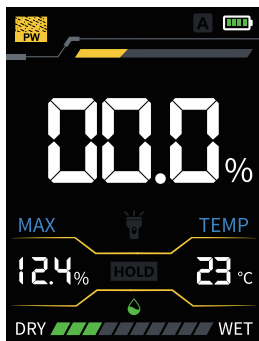
4. OPERATION INSTRUCTIONS

4.1 Main Interface

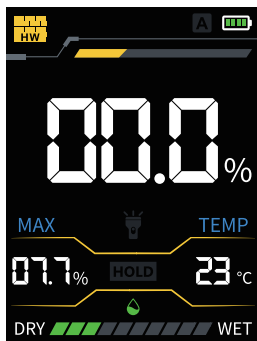


4.2 Test Mode

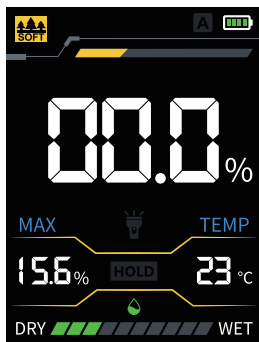
Switch modes on the main screen by short-pressing the OK button.



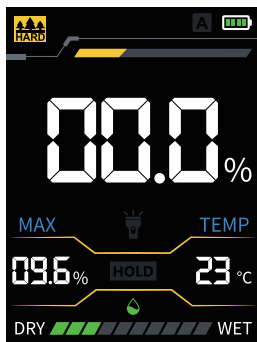
Plaster Wall Test Mode



Concrete Wall Test Mode



Cork Test Mode

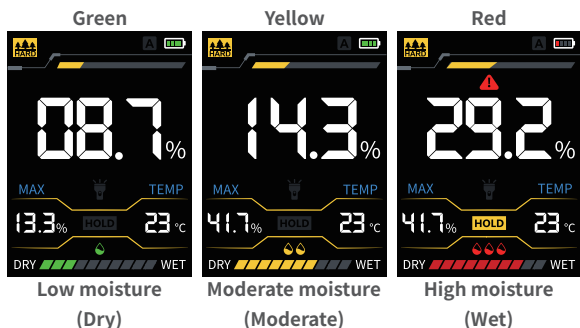


Hardwood Test Mode

4.3 Humidity Alarm Reference Table

Moisture Content Level	Dry 	Moderate 	Wet 
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

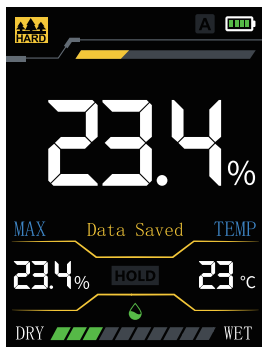


4.5 Data Saving

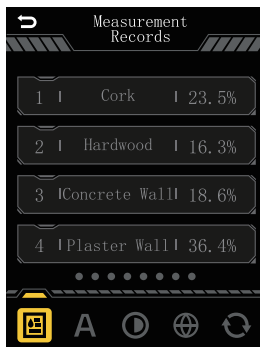
Press the **SAVE** button on the main screen to save data. The main screen will display "Data Saved" once saved.

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.

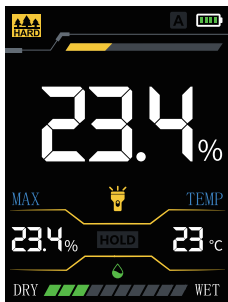


! NOTE

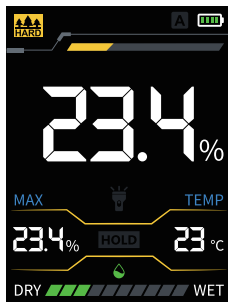
After performing a factory reset, all data will be deleted and restored to default settings.

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.



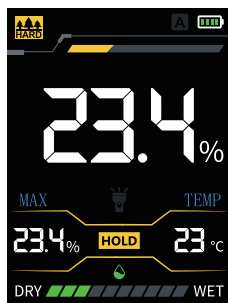
开启状态



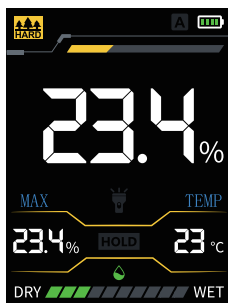
关闭状态

4.11 HOLD Data Hold Lock Operation

Press the **HOLD** button briefly on the main screen to lock the current measurement result. Press the **HOLD** 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 **OK** button and the power button 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)/
fnirsiofficialcs@gmail.com(Equipment service)

Tel: 0755-28020752 / +8613536884686



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