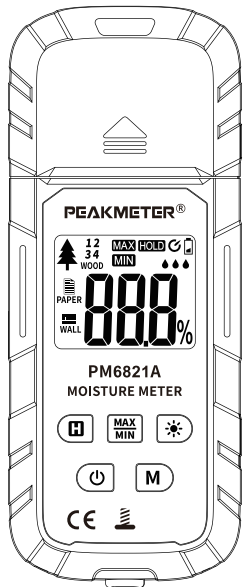


PM6821A PIN MOISTURE METER



As products are constantly being upgraded,The pictures in the manual are subject to the actual product.



Before using the instrument,please read this manual carefully,and save it well for future using.

PEAKMETER®
Profile / Package and accessories / Safety Instructions

1. Profile

This is a resistance wood moisture meter featured in stable, reliable, and safe performance. It is designed and produced according to GB/T1931-2009 Method for Determination of the Moisture Content of Wood and JJG 986-2004 Verification Regulations for Wood Moisture Content Measuring Meters. High-performance micro controller is applied as the core of measurement control to achieve rapid measuring response, high precision, and low power consumption; There are 6 modes of humidity measurement: 4 types of tree species, paper and walls. Portable size and large ratio LCD screen make the product not only convenient to carry, but also display digits clearly. It is applicable for rapid moisture content measuring of wood raw materials, paper, plywood, whitewashed wall, and floor. This manual contains operating instructions and safety warnings. Please read it through carefully before use and follow all safety warnings and precautions.

2. Package and accessories

- 1. Device ----- 1
- 2. 1.5V AAA Battery ----- 2
- 3. User Manual ----- 1

3. Safety Instructions

Warning: The test probe of this meter is sharp and may cause body injury and device damage. Please put on the protective cover when you finish using, and keep it properly in places

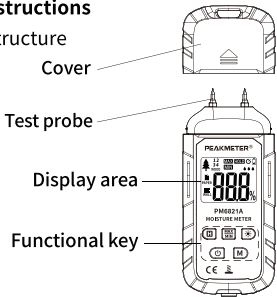
PEAKMETER®
Instrument Instructions

untouchable to children.

1. Please check the instrument and accessories carefully before use. Stop using this meter if you find any obviously damage on the meter case or accessories, or any abnormality on the display.
2. Please follow the operating instructions in this manual while measuring.
3. Do not open the meter or change the internal wiring randomly for it may cause damage to the meter.
4. Please change the battery when the under-voltage icon "  " on the meter display lights on.
5. Do not expose the test probe to any charged objects for it may cause damage to the meter.
6. Keep the meter away from and do not use it in high temperature, high humidity, flammable and explosive, and strongly electromagnetic environment.

4. Instrument Instructions

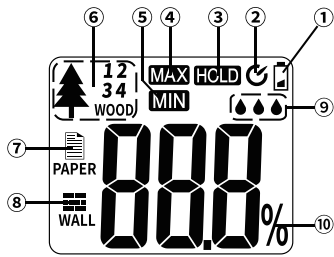
4.1 Appearance structure



PEAKMETER®
Functional keys

4.2 Instruction to display icons

- ① Under-voltage icon
- ② Auto-off icon
- ③ Data hold
- ④ Max. value measure
- ⑤ Min. value measure
- ⑥ Tree species mode
- ⑦ Paper packaging material mode
- ⑧ Building walls mode
- ⑨ Humidity indicator
- ⑩ Percent



5. Functional keys

5.1 Power " " key

Power on: Press and hold the power button "  " for about 1 second to turn on the tester, and it will enter the working state.

Power off: While the tester is on, briefly press the power button "  " to turn it off.

5.2 Data Hold " " key

HOLD: during the measuring process, press this key shortly to hold the data, and the "  " icon displays, then press it shortly again, the device will exit data holding status and resume normal measuring.

5.3 MAX/MIN key

Short press to switch between maximum and minimum measurement, long press without function. When the maximum or minimum measurement modes are selected, the instrument always displays the maximum or minimum

PEAKMETER®
Functional keys / Measuring

reading.

5.4 Measurement Type "M" key

In the working state of the tester, briefly press the measurement type selection "M" button to switch between different 4 tree types, paper packaging materials, and building wall modes. After power-on or reset, the tester defaults to tree type 3 humidity measurement mode.

5.5 Backlight " " key

In the working state of the tester, briefly press to turn on or off the backlight. The backlight is on by default, and the backlight colors are divided into three types: green, yellow, and red, which represent the water content ratio of different measurement types.

6. Measuring

6.1 Tree species measurement operation

① Long press "  " button to turn it on;

② Press the "M" key to switch tree species types. Select the tree type according to the tree species comparison table. If no corresponding tree type available in the comparison table, please select Tree Type 3 to carry out approximate value measurement.

Note: Generally, the value measured along the transverse direction of the wood grain is smaller than that of longitudinal direction, and the value measured along the transverse direction shall prevail.

③ Take off the cover of the test probe sensor and insert it

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Measuring

vertically into the wood sample till the 6mm depth limit of the probe (See Figure 1);

④ Wait till the value stays stable, then the value shown on the screen should be the moisture content of the wood sample.

⑤ During the measuring process, the MAX and MIN value measuring and value hold function can be enabled or disabled according to the icon instructions.

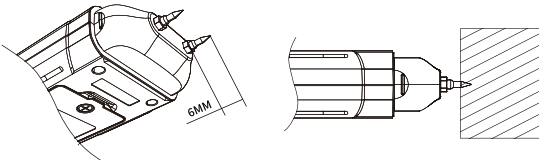


Figure 1

6.2 Paper packaging materials and wall measurement operations

① Long press "  " button to turn it on;

② Choose paper packaging or wall measurement mode.

③ Take off the cover of the test probe sensor and insert it vertically into the paper or wall sample till the 6mm depth limit of the probe (See Figure 1); (If it is not possible to insert the measured object, please press firmly to ensure accurate measurement results).

Note: Inserting the measured object for measurement is more accurate compared to measuring against the measured object.

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Auto-power off / Technical specifications

④ After the reading is stable, the screen displays the moisture content value of the tested sample;

⑤ During the measurement process, the maximum/minimum value measurement and data hold functions can be enabled or disabled according to the function button instructions.

7. Auto-power off

When the device is booted, auto-power off function is defaulted enabled: the device will be off if no key pressing happens within 5 minutes. When the tester is off, simultaneously press and hold the "  " and "  " keys to cancel the auto-power off function.

8. Technical specifications

Altitude: below 2000 meters

Pollution level: Level II

Working temperature: -10 ° C ~ 60 ° C

Working humidity: ≤ 75% RH

Storage temperature: -20 ° C ~ 80 ° C

Storage humidity: ≤ 75% RH

Battery: 2* 1.5V AAA

Under-voltage indication: approximately 2.4V, LCD displays the "  " symbol.

Appearance dimension: 149.7mm × 60.8mm × 26.6mm

Weight: approximately 117g (not include battery)

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Technical indicators

9. Technical indicators

Function	Range	Resolution	Error	Instructions
Moisture Content	2.0%~75.0%	0.1%	Value ±1.0	Tree species1: 2.0%~25.0% Tree species2: 3.0%~30.0% Tree species3: 4.0%~35.0% Tree species4: 5.0%~40.0% Paper: 5.0%~75.0% Wall: 1.5%~30.0%
Character-istics	Instructions			
Display	Maximum value "75.0%"			
Backlight	Default or low humidity: green; medium humidity: yellow; High humidity: red; backlight can be turned off manually			
Type	low humidity (green)	medium humidity (yellow)	High humidity (red)	
Tree species 1	≤ 7.9%	8.0%~11.9%	≥ 12.0%	

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Tree species comparison table

Tree species 2	≤ 10.3%	10.4%~14.8%	≥ 14.9%
Tree species 3	≤ 12.7%	12.8%~17.6%	≥ 17.7%
Tree species 4	≤ 14.8%	14.9%~20.4%	≥ 20.5%
Paper	≤ 11.9%	12.0%~15.9%	≥ 16.0%
Wall	≤ 6.9%	7.0%~9.9%	≥ 10.0%

10. Tree species comparison table

Species	Type	Species	Type
Rhodesian teak	1	Balsa	3
Afrormosia	1	Padauk	3
Brazilian walnut tree	1	Elm	3
Walnut	2	Gmelina arborea Roxb	3
Keruing	2	Hemlock	3
White poplar	2	Dryobalanops aromatica	3
Teak	2	Oak	3
Fir	3	Masson pine	4
Douglas fir	3	Chilean tree	4
Lauan	3	White pine	4

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Replace the probe

Ash	3	Larch	4
White fir	3	Apitong	4
Maple	3	Birch	4
White ash	3	Basswood	4

11. Replace the probe

1. Shutdown the instrument;

2. Rotate the probe counterclockwise with a 5.0mm wrench and remove the probe.

3. Replace a new probe and tighten it clockwise.

