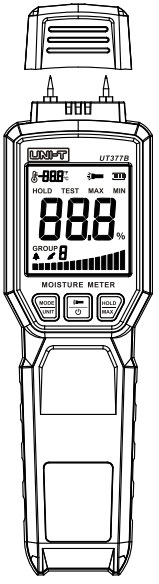
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UNI-T®



UT377B
Pin Moisture Meter
User Manual

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EN

PREFACE

Thank you for purchasing the new Pin Moisture Meter. In order to use this product safely and correctly, please read this manual thoroughly, especially the Cautions part.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

LIMITED WARRANTY AND LIABILITY

UNI-Trend guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of UNI-Trend. If you need warranty service within the warranty period, please contact your seller and send the product back to the service center.

This warranty is the only compensation you can obtain. UNI-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

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1. Product Overview

The UT377B is a stable, safe, and reliable pin moisture tester featuring an LCD screen for clear and intuitive moisture content readings. It offers multiple wood species selections and building material options. Equipped with environmental temperature compensation, it minimizes measurement errors significantly. With rapid detection capability, low power consumption, and high precision, this instrument is widely used for fast moisture measurement in wood materials, papermaking, plywood, wood drying, furniture decoration, and building materials.

The user manual includes Cautions and Warnings, so please read carefully.

⚠ Warning: Read the “Operation Guideline for Safety” part before you use the device.

2. Features

- High-sensitivity probe for more accurate measurement
- 7 mode options to accommodate various wood types and building materials
- Built-in temperature sensor for real-time environmental monitoring
- Audible buzzer and analog bar alerts for easy humidity tracking
- Integrated LED light for low-light and nighttime environments
- 2-meter drop protection for worry-free usage

3. Packing List

Unpack and take the meter out to check whether the following items are missing or damaged:

Pin Moisture Meter ---------- 1
User Manual ---------- 1
AAA Alkaline Battery ---------- 2

Please contact your seller if any component is missed or damaged.

4. Cautions

Read and follow the following Cautions carefully before you use the device.

⚠ Warning: Due to its sharpness of probe, do not place meter in somewhere minors can easily reach or hand it over to minors for use!

- Check the device and accessories before you use the device. Do not use it any more if the housing is damaged or LCD fails to display, or you think it fails t work normally.
- Follow the operational guideline during the measurement.
- Do not open the meter randomly or modify the internal wirings to avoid the damage.
- Replace the battery in time when shows on the LCD screen; take the battery out if it is not used for a long time.
- Do not store or use meter in flammable, explosive, strong electromagnetic field environment.
- The product has met the CE compliant.

5. Product Structure

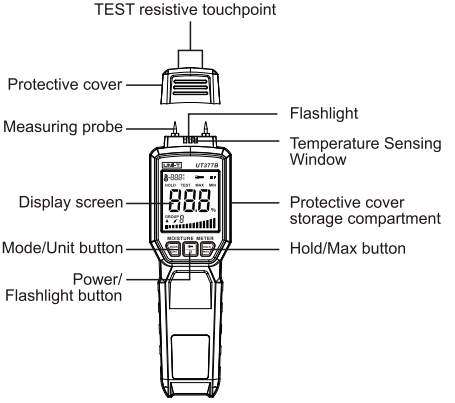


Figure 1

Button Description

Button	Short Press	Long press
MODE UNIT Mode/Unit	Mode switching	°F、°C switching
Power/ Flashlight	Turn Flashlight on/off	Power on/off
HOLD MAX HOLD/MAX	Data hold	Max/Min/ Normal selection

6. Display

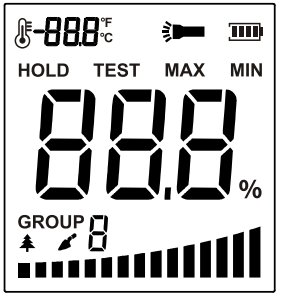


Figure 2

	Ambient Temperature
	Flashlight
	Battery State
HOLD	Data Hold
TEST	Contact Resistance Self-Test
MAX MIN	MAX; MIN
	Measured Value
	Measurement Mode
	Mimic Strip

7. Button Settings

1) Power/Flashlight
Power On/Off: Long press to power on, long press again to power off.
Flashlight: Short press to make flashlight on, short press again to make it off.

2) :Mode/Unit
Long press to switch between℉/℃.
Short press to switch modes.

Modes	Descriptions	Range
1	Beech, spruce, larch, birch, cherry, walnut	8.8~54.8%
2	Oak, pine, maple, ash, Douglas fir, eucalyptus	7.0~47.9%
3	Cement mortar layer, concrete	0.9~22.1%
4	Anhydrous gypsum mortar layer	0.0~11.0%
5	Cement mortar	0.7~8.6%
6	Lime mortar, gypsum	0.6~9.9%
7	Brick	0.1~16.5%
TEST	Self-test mode	------

⚠ Notes: There are big moisture differences in the same kind of woods taken from different parts because of the climate, geography, location and other causes.

3) : Data Hold
Data Hold: In the moisture measurement, short press button once to hold the measured data (HOLD), short press it again to exit the data hold, and continue the normal measurement. Long press button to select the MAX/MIN/Normal measurement, the meter keeps the display of MAX/MIN reading when in the MAX/MIN measurement.

8. Measurement Operations

1) Long press button to power on and with full LCD display for 1 second, to enter the normal measurement.
2) Short press MODE/UNIT button to select the wood type or building material type.
3) Detach protective cover and silicone sleeve, store cover in rear compartment (Figure 3).
4) Insert the product probe vertically into the object to be inspected, and the maximum insertion depth is the probe limit position (Figure 3).

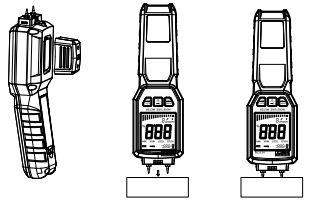


Figure 3

5) The data displayed on the LCD is the wood moisture content. (That is, absolute moisture content)
6) Long press HOLD/MAX button and refer to operations in “Measurement Mode Selection” when you need to enter the MAX/MIN measurement.
7) Short press HOLD/MAX button and refer to operations in “Data Hold” when you need to hold the measured data.

⚠ Notes: When measuring wood, slightly shake to pull out the probe along the direction of wood grain, to avoid the probe breaking (Figure 4).



Figure 4

8) Self-Test
a. Short press MODE/UNIT button to switch to the Self-Test mode, and ‘TEST’ icon flashes at this moment;
b. Connect the probe to the TEST resistor contact on the top of the protective cover (Figure 5). The self-test is OK when ‘PAS’ shows on the screen, otherwise the self-test is failed and not sure if the measurement is accurate.
c. Short press MODE/UNIT button again to exit the Self-Test mode.



Figure 5

9) Light Bar & Sound Alarm

a. See following details for color indication of light bar:

Modes	Green	Yellow	Red
1	8.8~16.0%	16.0~24.0%	>24.0%
2	7.0~14.0%	14.0~22.5%	>22.5%
3	0.9~2.2%	2.2~10.0%	>10.0%
4	0.0~0.5%	0.5~5.5%	>5.5%
5	0.7~3.0%	3.0~5.8%	>5.8%
6	0.6~2.0%	2.0~6.0%	>6.0%
7	0.1~5.5%	5.5~11.0%	>11.0%

b. See following details for sound alarm:
Buzzer alarms in sound simultaneously when the red bar lights up.

9. Specification & Default Setting

1) Technical Specification

Wood	Range	7.0~54.8%
	Accuracy	±1%
Building Materials	Range	0.0~22.1%
	Accuracy	±0.5%
Resolution	0.1	
Ambient Temperature Correction Range	-5~50℃	
Refresh Rate	0.5s	

Max/Min/Data hold	Yes
High moisture alarm	Mimic Strip /Buzzer
Auto Power Off	No operation within 5 minutes
Flashlight	Yes
Product Size	195mm*56mm*36mm
Weight	About 140g
Drop-Proof	2m (cement floor)
Certificate	CE、RoHS
Working Environment	-5~50℃, ≤80%RH (Non-condensing)
Storage Environment	-40~70℃, ≤70%RH (Non-condensing)
Altitude	2000m (highest)
Class of Pollution	Class 2

2) General Maintenance

⚠ Warning: Do not open the housing of device, to avoid causing measurement inaccuracy or device damage.

a. The service of repair and maintenance must be done by the professional personnel or qualified departments.
b. Use dry cloth to wipe the housing regularly; do not use any detergents containing abrasive or solvent components.

3) Battery Installation & Replacement

a. The standard battery is 2*1.5V AAA battery, please refer to figure 6 for installing or replacing the battery.
b. Place the panel of device facing down, use your fingers or a slot type screwdriver to open the battery cover and take the battery out; install the new battery as per the polarity of battery.
c. Install batteries in same and standard types.
d. Tighten the battery cover after installing the new battery.

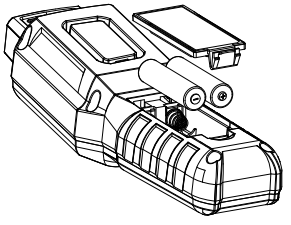


Figure 6

The User Manual is subject to change without prior notice!

Due to different batches, the materials and details of actual products may be slightly different from the graphic information, please refer to the actual product received. Experimental data provided in the page is from internal laboratory of UNI-T, but it should not be a reference for customer to place orders. Any questions, please contact the customer service, thanks!