UNI-T UT377C Pinless Moisture Meter





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UNI-T UT377C Pinless Moisture Meter



PREFACE

Thank you for purchasing the new UT377C pinless moisture meter. In order to use this product safely and correctly, please read this manual thoroughly, especially the Safety Instructions 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-T 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 or improper handling. The dealer shall not be entitled to give any other warranty on behalf of UNI-T. If you need warranty service within the warranty period, please contact your seller directly. This warranty is the only compensation you can obtain. UNI-T 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.

About

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 on the page is from the internal laboratory of UNI-T, but it should not be a reference for customers to place orders. Any questions, please contact customer service, thanks!

Introduction

UT377C is a Moisture Meter measured in contact or induction way, testing the moisture content without damaging the wood and building materials, with features of high accuracy, reliable performance, undamaged measurement, etc. It is widely used in the industries of manufacturing, wood processing, architectural decoration, scientific research, quality control, etc.

Features

- 1. Undamaged measurement on the surface of wood and building materials.
- 2. Fast measurement without drying and humidification for the wood or building materials.
- 3. With a high-accuracy sensor, features of high accuracy, wear resistance, and stability.
- 4. The wood grain direction does not affect the moisture content measurement.
- 5. The grip has little effect on the moisture content measurement.
- 6. Measurement depth is up to 30mm.
- 7. Three lights in green, yellow and red.
- 8. Audible alarm.
- 9. Flashlight.
- 10. Color screen LCD & More visual measurement.

Configurations

Take the meter out of the package to check if the device or any components are missing or damaged.

- 1. Pinless Moisture Meter 1pc
- 2. User Manual 1pc
- 3. Cloth Bag 1pc
- 4. Alkaline Battery 3pcs

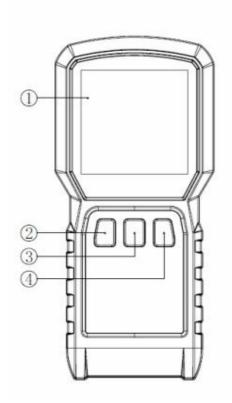
Safety

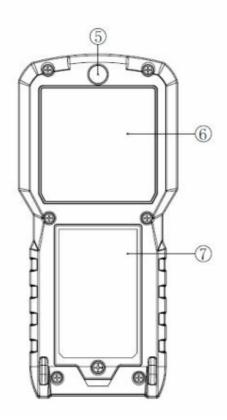
Please read the Safety carefully and follow these steps.

- 1. Avoid any metals existing below the probe during the measurement.
- 2. Do not press the meter hard or drag it to avoid the sensor surface wear.
- 3. Do not use anything sharp to scratch the sensor to avoid any sensor surface damage.
- 4. Keep the sensor in a clean condition to avoid dust and oil pollution.
- 5. Do not store or use the meter in high temperature, high humidity, flammable, explosive or strong electromagnetic environments.
- 6. Do not dismantle or assemble randomly to avoid damage.
- 7. Replace the battery in time when the low battery shows, and take the battery out if it is not used for a long time.
- 8. The battery is the standard AAA Alkaline Battery, which cannot be charged.
- 9. Maintenance: Please use a soft cloth and neutral detergent to clean the case. Do not use abrasives or solvents.

Functions

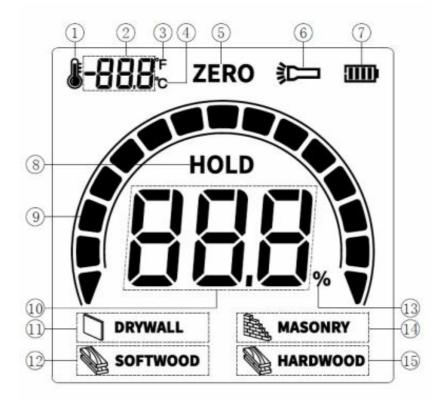
Structure





- 1. LCD
- 2. MODE Button
- 3. POWER Button
- 4. HOLD Button
- 5. LED Light
- 6. Sensor
- 7. Battery Holder

Display



- 1. Temperature Display
- 2. Temperature Value
- 3. Fahrenheit (°F)
- 4. Centigrade (°C)
- 5. Moisture Content Zero
- 6. LED Light
- 7. Battery Status
- 8. HOLD Indication
- 9. Simulation Bar
- 10. Moisture Content Value
- 11. DRYWALL Indication
- 12. SOFTWOOD Indication
- 13. Moisture Content Unit ()
- 14. MASONRY Indication
- 15. HARDWOOD Indication

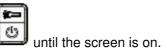
Buttons

Buttons	Short Press	Zero Reset Power On/Off	
MODE	Mode Switch		
POWER	Flashlight ON/OFF		
HOLD	Data Hold	Temperature Unit Switch	

Operations

Power On/Off

1. Power On: Long press POWER button



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2. **Power Off**: Long press POWER button

until the "OFF" shows on the screen.

Measurement

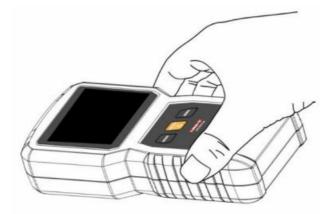
1. Check the type of measured target, Softwood, Hardwood, Drywall or Masonry, then short press the MODE



2. Place the sensor (back side of the device) on the measured target, measuring the moisture content.

Notes

• Place the sensor (back side of the device) on the measured target to keep in good touch with each other for high accuracy. Meanwhile, measure the target as per the following handhold way, only using fingers to hold the device, with palm away from the device to avoid the reading error.



- Make sure the surface of measured target is free of dust and dirt during the measurement.
- Repeatedly measure the target to get the average value of moisture content due to its uneven moisture distribution.
- Avoid nails or others sharp during the measurement of when the device is slid on the surface of measured target checking the moisture content quickly.
- At least 25mm is gapped below the measured target. Make sure your hands are not below the device during the measurement.
- The measured target should be in the range of sensor area for accurate reading of moisture content due to the size of sensor (50mm*50mm).
- Wipe the extra moisture existed on the surface of measured target and dry the surface for a few minutes before
 the measurement.
- Do not measure the target with open defect or in any irregular position.
- Drywall and Masonry measurement of device is to get the relative value, which can quickly compares different moisture content of building materials to locate the high/low moisture area. The moisture location also can be judged by the moisture content requirements, to see if the place reaches to the acceptable moisture content.

The reading range of two modes is within 0~99.9%.

- Please stack the measured target before the measurement when its thickness is <6mm, because the minimum thickness measured is 6mm.
- The device enters the power-saving mode in the 30s and the LCD backlight turns dark when there is no action on the device or it stops measuring. Short press the button or continue to measure, and the LCD backlight will return to the original status.

Zero Reset

Reset to zero if the moisture content is >0.0% shown in the LCD when picking up the device. See the following steps:

- 1. Pick up the device and let it in the air to keep the sensor away from the measured target.
- 2. Long press button, showing "ZERO" in the LCD, resetting to zero.
- 3. The "ZERO" indication will disappear in 2s, finishing the operation.

Simulation Bar & Audible Alarm

Simulation Bar Color

Modes	Green	Yellow	Red
Drywall	0~20%	20~60%	>60%
Masonry	0~16%	16~52%	>52%
Softwood	4~14%	14~24%	>24%
Hardwood	4~12%	12~20%	>20%

Notes

- For furniture, the moisture content is 5%~6% in the low relative moisture area, 10%~11% is acceptable in the high relative moisture area.
- For indoor wood, the moisture content is 6% in the low moisture area, 12% in the high moisture area.
- For outdoor wood, the moisture content is 10%~15%, which depends on the local moisture condition.
- More than 18%~20% moisture content of wood can be provided for the termites and wood wood-boring insects living. Meanwhile, high moisture content is also supported for the mycoses and biological growth.
- When the moisture content of wood is over 28%, it reaches to the fibre saturation point.

Audible Alarm

- Buzzer alarms when the moisture value is >24% in the wood test.
- Buzzer alarms when the relative value is > 60% in the building materials test.

Specifications

Technical Specification

Functions	Types	Test Range	Resolution	Value Error	Descriptions
Wood & Buildi ng Materials Measurement	Softwood	4~32%	0.1%		
	Hardwood	4~32%	0.1%	±4%	The value error is defined for poplar.
	Drywall	0~99.9%	0.1%		2. The accuracy is undefined be
	Masonry	0~99.9%	0.1%	Unspecified	cause of the relative value of building materials.

Temperat ure Measurem ent	°C/°F	-20~70°C	0.1°C	Unspecifi ed	
Sensor Si ze	50*50mn	n			
Minimum					
Target Siz e	50*50mn	n			
Target Thi ckness					
Range	6~30mm	l			
Screen					
Display	EBTN Color Screen				
Simulatio n Bar					
Indication	√				Green, Yellow, Red
Audible A larm					
Indication	√				
Flashlight	√				

Auto Pow er			
Off	\downarrow		
Measurem ent Modes	Softwood, Hardwood, Drywall, Masonry		
Auto Pow er Off	Auto power off in 5 minutes		
Under Vol tage Indication	Under voltage indicated when 2.0V±0.2V	Low battery "Low battery" is flashing.	
Power Su pply	1.5V AAA*2 = 3V Alkaline battery		
Current C onsumpti on	Power Off: ≤ 5uA	Working: ≤ 85mA	With the standard 3.0V to measure: 1. Flashlight off, Beeper off: ≤85mA. 2. Flashlight off, Beeper on: ≤100mA. 3. Flashlight on, Beeper on: ≤180mA.
Work Environm ent	0 40°C	≤80%RH	
Storage Environm ent	-20 60°C	≤75%RH	

General Specification

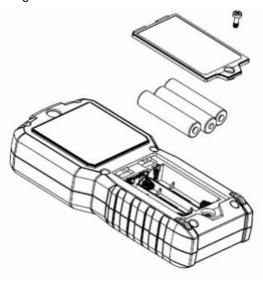
1. Update Rate: 0.5s.

2. **Sensor Type:** Magnetic Induction and Eddy Current compounded.

Impact Resistance: 2m drop-proof
 Battery: 1.5V AAA Alkaline battery*2
 Dimension: 152.0×70.0×31.5mm
 Weight: 194.0g (Battery included)

Battery Installation & Replacement

Replace the battery as per the following show:



- The contents of this manual are subject to change without prior notice.
- Please go to the official UniT website https://www.unitrend.com to get more details, thanks

Documents / Resources



<u>UNI-T UT377C Pinless Moisture Meter</u> [pdf] User Manual UT377C Pinless Moisture Meter, UT377C, Pinless Moisture Meter, Meter

References

- Home UNI-T | Measurement Meters, Testing Instruments and Thermal Imaging
- Home UNI-T | Measurement Meters, Testing Instruments and Thermal Imaging
- User Manual

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