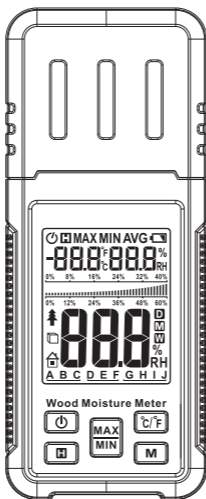


Wood Moisture Meter



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

Safety information

Warning:

Before using this product, please read this manual carefully and be familiar with the operation of the product, Keep this manual properly so that you can refer to it when necessary.

Precautions to avoid personal injury or instrument damage

- Operate the product correctly within the parameters specified in the technical data sheet according to the purpose of the product.
- Do not store this product with solvents, acids, or other corrosive substances.
- Be careful of personal injury caused by

electrodes. Please cover the protective cap when the product is not in use.

- Do not touch the electrode with any charged object to avoid damaging the product.

Product description

This product is a DC resistance type (pin type) material moisture meter, commonly used to measure the moisture content of wood or building materials. The moisture content of the material is displayed directly as a percentage. The instrument has built-in characteristic parameters of 7 different kinds of wood and building materials. This measurement can provide a basis for the need for further drying.

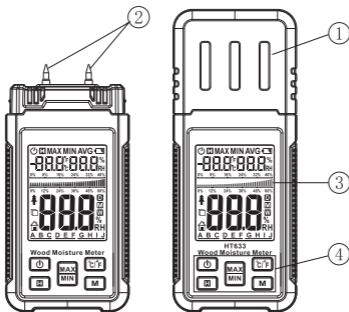
In addition to measuring the moisture content of the material, the ambient humidity and temperature can also be measured so that the dry environment can be evaluated directly on site

Function features

- Built-in characteristic parameters of 7 different kinds of wood and building materials
- Single point measurement
- Multi-point average measurement
- Data hold
- Maximum and minimum measurement
- Automatic shutdown (can be canceled when the user starts up)

- Ambient temperature measurement
- Environmental humidity measurement
- Low battery indicator

Meter description



- ① Protective cap
- ② Measurement pins
- ③ LCD display
- ④ Function keys

Press key description:



Power on/off key



Data hold key



Temperature unit selection key



Measure material category selection key



Max/Min data key

Measurement operation





Attention


In order to ensure the accuracy of the measurement readings, please select as many points of average measurement as possible. Be sure to measure moisture along the grain.

The values shown are closely related to the building materials/manufacturers and the surrounding environment. Sometimes even for the same material, there will be great differences between different batches

Meter testing

- 1) Press the  key to turn on the power and enter the measurement mode.
- 2) Press the  key to select the measured



material category as A, and the material category letter is displayed in the lower-left corner of the display.

- 3) After selecting the material category, remove the protective cap, insert two test pins of the instrument into the test contacts on the protective cap at the same time, and ensure good contact.
- 4) Press the  key to hold the measurement result and the symbol."H" is displayed on the LCD screen.
- 5) Read the measurement result from the display.
- 6) When the measurement is finished, please put the protective cap on in time.


Other operations


Auto shut down

Without any operation, the meter will automatically shut down after about 10 minutes to save battery energy. If necessary, you can cancel the automatic shutdown function as follows::

Press and hold the  key, and then turn on the power. The automatic power off will be canceled, and the symbol  will be hidden. so the user needs to turn the poweroff manually.

Maximum and minimum measurement

Press  to turn on the function of maximum and minimum values, and then press this key to

view the maximum and minimum values in cycles; press  and hold for about 2 seconds to exit the function of maximum and minimum values.

Red, Orange and Green tricolor Backlight

Automatically match the appropriate color backlight according to the moisture content


- Red backlight : High moisture content , showing the letter W
- Orange backlight : Moderate moisture content , showing the letter M
- Green backlight : Low moisture content , showing the letter D

Moisture content range for three color backlight


Backlight color	Moisture content range	Material type
Red	$W \geq 24\%$	A
Orange	$15\% \leq M < 24\%$	
Green	$D < 15\%$	
Red	$W \geq 22\%$	B
Orange	$14\% \leq M < 22\%$	
Green	$D < 14\%$	
Red	$W \geq 4\%$	C
Orange	$2\% \leq M < 4\%$	
Green	$D < 2\%$	

Red	$W \geq 2\%$	D
Orange	$1\% \leq M < 2\%$	
Green	$D < 1\%$	
Red	$W \geq 3\%$	E
Orange	$2\% \leq M < 3\%$	
Green	$D < 2\%$	
Red	$W \geq 2\%$	F
Orange	$1\% \leq M < 2\%$	
Green	$D < 1\%$	
Red	$W \geq 3\%$	G
Orange	$1\% \leq M < 3\%$	
Green	$D < 1\%$	

Material category selection

Press  key to select A-G material category number. Please refer to the material comparison table for material number selection.

Temperature unit selection

Press  to change the temperature unit.

Technical

Sensor: Resistance type (conductivity measurement), high precision temperature and humidity sensor

Measurement Range/Accuracy:

Material A: 9.0%~57.0% \pm 2.0%

Material B: 7.0%~52.0% \pm 2.0%

Material C: 0.9%~23.0% \pm 2.0%

Material D: 0.0%~12.0% \pm 2.0%

Material E: 0.7%~9.0% \pm 2.0%

Material F: 0.5%~10.0% \pm 2.0%

Material G: 0.0%~17.0% \pm 2.0%

Temperature & Humidity specification:

Temperature	Measuring range	-20.0°C~60.0°C(-4.0°F~140.0°F)
	Accuracy	0.0°C~45.0°C(32°F~113°F) \pm 1.0°C/2.0°F Other: \pm 1.5°C/3.0°F
Humidity	Measuring range	0.0% ~99.9%RH
	Accuracy	20%~80%: \pm 5.0RH Other: \pm 6.0RH

Ambient temperature:

-20.0~60.0°C (-4.0~140°F) ±1.5°C

Ambient humidity:

0.0~99.9% ±4.0%RH

Use environment: -10 ~50°C / 20 ~90%RH

Storage environment: -10 ~60°C / 20 ~90%RH

Power:3x1.5V AAA Alkaline battery

Maintain

Battery replacement

- 1) Turn off the power
- 2) Use a screwdriver to loosen the screws on the battery cover and open the battery cover.
- 3) Remove the old battery and replace it with a new battery of the same type (3 x

1.5V AAA alkaline battery)

- 4) Then close the battery cover and lock the battery cover with screws.

Note: Pay attention to the polarity of the battery when replacing it

Clean

Clean the meter surface with a mild detergent and a slightly wet cloth

Material comparison table

MaterialA	Beech, spruce, larch, birch, cherry, walnut: 8.8~54.8 %
MaterialB	Oak, pine, maple, ash, Douglas fir, Eucalyptus:6.8~47.9%
MaterialC	Cement mortar layer, concrete: 0.9~22.1 %
MaterialD	Anhydrous gypsum mortar layer: 0.0 ~11.0 %
MaterialE	Cement mortar: 0.7~8.6 %
MaterialF	Lime mortar, gypsum: 0.6~9.9 %
MaterialG	Brick: 0.0~16.5 %

Calibration Tables of Wood

Abies alba (B)	Agathis robusta (A)
Abies grandis (A)	Agba (A)
Abies Procera (A)	Amblygonocarpus
Acacia Wood (A)	andogensis (A)
Acanthopanax	Amblygonocarpus
ricinifolius (A)	obtusungulis (A)
Acer macrophyllum (A)	Amboyna (B)
Acer	Araucaria
pseudoplatanus (A)	angustifolia(B)
Acer saccharum (A)	Araucaria bidwilli (B)
Aetoxicon	Araucaria
punctatum (B)	cunninghamii (B)
Afara (A)	Ash, American (B)
Formosa (B)	Ash, European (A)
Afrormosia elata (B)	Ash, Japanese (A)
Afzelia (B)	Ayan (B)
Afzelia spp (B)	Baguacu,
Agathis australis (B)	Bracllian(A)
Agathis Palmerston (A)	Balsa (A)

Bamboo (A)	Boxwood,
Banga Wanga (A)	Maracaibo (A)
Basswood (B)	Brachylaena
Beech, European (B)	hutchinsii (A)
Berlina (B)	Brachystegia spp (B)
Berlinia grandiflora (B)	Calophyllum
Berlina spp (B)	brasiliense (B)
Betula alba (A)	Camphorwood, E
Betula	African (B)
alleganiensis (A)	Canarium
Betula pendula (A)	schweinfurthii (B)
Betula spp (A)	Canarium, African (B)
Bintang (B)	Cardwell sublimes (B)
Birch, European (A)	Carya glabra (A)
Birch, Yellow (A)	Cassipourea elliotii (A)
Bisson (B)	Cassipourea
Bitterwood (A)	melanosana (A)
Blackbutt (B)	Castanea Sativa (B)
Bosquiea (A)	Cedar, West
Bosquiera phoberos (A)	Indian (A)

Cedar, Western Red (B)	Croton
Cedar, Japanese (B)	megalocarpus (A)
Cedrela odorata (A)	Cryptomelia
Ceratopetalum	japonica (B)
apetala (B)	Cupressus spp (A)
Chamaecyparis spp	Cypress, E African (A)
(18-28%mc) (B)	Cypress, Japanese
Chamaecyparis spp	(18-28%mc) (B)
(8-18%mc) (A)	Cypress, Japanese
Cherry and Apple	(8-18%mc) (A)
Wood (A)	Dacrydium
Cherry and apple	franklinii(B)
wood (B)	Dahoma (A)
Cherry, European (A)	Dalbergia latifolia (A)
Chestnut (B)	Danta(B)
Chlorophora excelsa(A)	Diospyros virginiana (B)
Coachwood (B)	Dipterocarpus
Cordia alliodora (A)	(Keruing) (A)
Cordia, American	Dipterocarpus
Light (A)	zeylanicus (A)

Distemonanthus	cylindricum (B)
benthamianus (B)	Entandrophragma
Douglas Fir (B)	utile (A)
Dracontomelium	Erimado (A)
mangiferum (B)	Erythrophleum spp(B)
Dryobanalops spp (A)	Eucalyptus
Dyera costulata (B)	acmcnicides (B)
Elm (D)	Eucalyptus crebra(B)
Elm (D)	Eucalyptus
Elm, English (B)	diversicolor (A)
Elm, Japanese Grey	Eucalyptus globulus(B)
Bark (B)	Eucalyptus maculate(A)
Elm, Rock (B)	Eucalyptus
Elm, White (B)	marginata (B)
Empress Tree(A)	Eucalyptus
Endiandra	microcuries (A)
palmerstoni (B)	Eucalyptus
Entandrophragma	obliqua(B)
angolense (B)	Eucalyptus pilularis(B)
Entandrophragma	Eucalyptus saligna(B)

Eucalyptus wandoo(A)	Greenheart (B)
Fagus sylvatica (B)	Grevillea robusta (B)
Picea abies(B)	Guarea cedrata (B)
Fir, Douglas(B)	Guarea thomsonii (A)
Fir, Grand(A)	Guarea, Black (A)
Fir, Noble (A)	Guarea, White (B)
Flindersia	Guibortia White (B)
brayleyana (B)	Gum, American
Fraxinus Americana(B)	Red(A)
Fraxinus excelsior (A)	Gum, Saligna(B)
Fraxinus japonicus (A)	Gum, Southern (B)
Fraxinus	Gum, Spotted (A)
mardshurica (A)	Gurjun (A)
Gequ, Nohor(B)	Hemlock, Western(B)
Gonystylus	Hevea Brasiliense (B)
macrophyllum (B)	Hiba (A)
Gossweilodendron	Hickory (A)
balsamiferum (A)	Hyedunani (B)
Gossypiospermum	Intsia bijuga(B)
proerox (A)	Jarrah (B)

Jelutong (B)	Liquidamber
Juglans nigra (A)	styraciflua (A)
Juglans regia (B)	Locust/Robinia
Kapur (A)	pseudoacacia (A)
Karri A	Locust/Robinia
Kauri, New Zealand(B)	pseudoacacia (A)
Kauri, Queensland(A)	Loliondo (B)
Keruing (A)	Lovoa klaineanaL (A)
Khaya ivorensis (A)	Lovoa trichiloides (A)
Khaya senegalensis(B)	Iroko(A)
Kuroka (A)	Lronbank (B)
Larch, European (B)	Maesopsis eminii (A)
Larch, Japanese (B)	Mahogany, African(A)
Larch, Western (A)	Mahogany, West
Larix decidua (B)	Indian (B)
Larix kaempferi (B)	Makore (B)
Larix Nephrolepis (B)	Mansonia (B)
Larix occidentalis (A)	Mansonia altissima(B)
Lime(B)	Maple, Pacific (A)

Maple, Queensland(B)	Nesogordonia
Maple, Rock (A)	papaverifera (B)
Maple, Sugar (A)	Nothofagus
Matai (B)	cunninghamii (A)
Meranti, Red (dark/light) (B)	Oak (White/Red) (A)
Meranti, White (B)	Oak (White/Red) (A)
Merbau (B)	Ochroma lagopus (A)
Millettia	Ochroma
stuhimannii (A)	pyramidalis (A)
Mimusops heckelii (B)	Ocotea rodiaei (B)
Miranda (B)	Ocotea
Mitragyna ciliata (B)	usambarensis (B)
Muhuhi (A)	Octomeles
Muninga (B)	sumatrana (B)
Musine (A)	Olea hochstetteri (B)
Musízi (A)	Olea welwitschii (B)
Myrtle, Tasmanian(A)	Palaquium spp (A)
Nauclea diderrichii(B)	Paulownia
	tomentosa (A)

Pecan (B)	Pinus radiata (B)
pecan (B)	Pinus spp (B)
Pericopsis elata (B)	Pinus strobus (A)
Piacenza excelsa (B)	Pinus sylvestris (A)
Picea jezoensis (18-28%mc) (B)	Pinus thunbergii (B)
Picea jezoensis (8-18%mc) (A)	Pipadeniastrum africanum (A)
Picea sitchensis (B)	Piptadenia africana(A)
Pine, Scots (A)	Podocarpus dacrydiodes (B)
Pine, Sugar (B)	Podocarpus spicatus(B)
Pine, Yellow (A)	Podocarpus totara(B)
Pinus caribaea (B)	Poplar, Black (A)
Pinus contorta (A)	Populus spp (A)
Pinus lambertiana (B)	Prunus avium (A)
Pinus nigra(B)	Pseudotsuga menzesii (B)
Pinus palustris (B)	Pterocarpus angolensis (B)
Pinus pinaster (B)	
Pinus ponderosa (B)	

Pterocarpus indicus(B)	Californian (B)
Pterocarpus soyausii(A)	Ricinodendron
Pterygota bequaertii(A)	heudelotti (A)
Pterygota, African(A)	Rosewood, Indian(A)
Pyinkado (B)	Rubberwood(B)
Queensland Walnut(B)	Santa Maria (B)
Queensland Kauri (A)	Sapele (B)
Quercus Alba (A)	Sarcocephalus
Quercus Alba (A)	diderrichii (B)
Quercus robur (A)	Scottellia coriacea (B)
Quercus spp (A)	Sen (A)
Quercus cerris (B)	Sequoia
Quercus	sempervirens (B)
delegatensis (B)	Seraya, Red (B)
Quercus gigantean(B)	Shorea smithiana(B)
Ramin (B)	Shorea spp (B)
Redwood, Baltic	Silky Oak, African (B)
(European) (A)	Silky Oak, Australian(B)
Redwood,	

Southern Cypress(A)	Sycamore (A)
southern cypress (A)	Syncarpia
Split California Black	glomulifera (B)
Oak (A)	Syncarpia laurifolia(B)
Spruce, Japanese	Tallowwood (A)
(18-28%mc) (B)	Tarrietia utilis (B)
Spruce, Japanese	Taxus baccata (B)
(8-18%mc) (A)	Teak (A)
Spruce, Norway	Tectona grandis (A)
(European) (B)	Terminalia Superba(A)
Spruce, Sitka (B)	Thuja plicata (B)
Sterculia	Thujopsis dolabrat(A)
rhinopetala (A)	Tieghamella heckelii(B)
Sterculia, Brown (A)	Tilia americana (B)
Stringybark,	Tilia Vulgaris(B)
Messmate (B)	Totara (B)
Stringybark, Yellow(B)	Triploehiton
Swietenia candollei(A)	scleroxylon (B)
Swietenia mahogany(B)	Tsuga heterophylia(B)

Turpentine (B)	Xylia dolabriformis(B)
Ulmus americana(B)	Yew (B)
Ulmus procera (B)	
Ulmus thomasii (B)	
Utile (A)	
Walnut (B)	
walnut (B)	
Walnut, African (A)	
Walnut, American (A)	
Walnut, European(B)	
Walnut, New Guinea (B)	
Walnut, Queensland(B)	
Wandoo (A)	
Wawa (B)	
White Pine (A)	
white pine (A)	
Whitewood (B)	

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