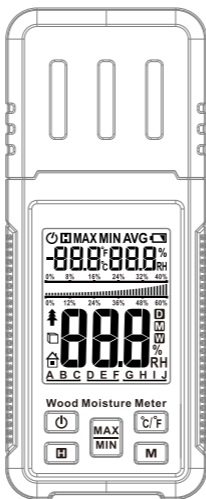


Wood Moisture Meter



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

electrode. 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.

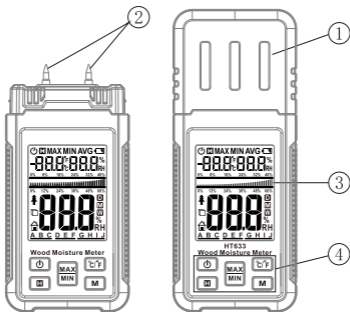
In addition to measuring the moisture content of the material, the ambient humidity and temperature can also be measured so that the dry environment can be evaluated directly on site

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 cancelled 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 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 power. The automatic power off will be cancelled, and the symbol  will be hidden. so the user needs to turn power off 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 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:

Temperat ure	Measurin g range	-20.0°C~60.0°C(-4.0°F ~140.0°F)
	Accuracy	0.0°C~45.0°C(32°F~1 13°F) \pm 1.0°C/2.0°F Other: \pm 1.5°C/3.0°F
Humidity	Measurin g 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)	(A)
Abies grandis (A)	Agathis robusta (A)
Abies procera (A)	Agba (A)
Acacia Wood (A)	Amblygonocarpus
Acanthopanax	andogensis (A)
ricinifolius (A)	Amblygonocarpus
Acer macrophyllum	obtusungulis (A)
(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)
Aformosa (B)	Ash, European (A)
Aformosia elata (B)	Ash, Japanese (A)
Afzelia (B)	Ayan (B)
Afzelia spp (B)	Baguacu,
Agathis australis (B)	Bracllian(A)
Agathis palmerstoni	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	Calophyllum
(B)	brasiliense (B)
Berlinia spp (B)	Camphorwood, E
Betula alba (A)	African (B)
Betula	Canarium
alleghaniensis (A)	schweinfurthii (B)
Betula pendula (A)	Canarium, African
Betula spp (A)	(B)
Binvang (B)	Cardwellia sublimis
Birch, European (A)	(B)
Birch, Yellow(A)	Carya glabra (A)
Bisselon (B)	Cassipourea elliotii
Bitterwood (A)	(A)
Blackbutt (B)	Cassipourea
Bosquiea (A)	melanosana (A)
Bosquiera phoberos	Castanea sutiva (B)
(A)	Cedar, West

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

(Keruing) (A)	angolense (B)
Dipterocarpus	Entandrophragma
zeylanicus (A)	cylindricum (B)
Distemonanthus	Entandrophragma
benthamianus (B)	utile (A)
Douglas Fir (B)	Erimado (A)
Dracontomelium	Erythrophleum spp
mangiferum (B)	(B)
Dryobalanops spp	Eucalyptus
(A)	acmnicides (B)
Dyera costulata (B)	Eucalyptus crebra
Elm (D)	(B)
Elm (D)	Eucalyptus
Elm, English (B)	diversicolor (A)
Elm, Japanese Grey	Eucalyptus globulus
Bark (B)	(B)
Elm, Rock (B)	Eucalyptus maculate
Elm, White (B)	(A)
Empress Tree(A)	Eucalyptus
Endiandra	marginata (B)
palmerstoni (B)	Eucalyptus
Entandrophragma	microcorys (A)

Eucalyptus	mardshurica (A)
obliqua(B)	Gequ, Nohor(B)
Eucalyptus pilularis	Gonystylus
(B)	macrophyllum (B)
Eucalyptus saligna	Gossweilodendron
(B)	balsamiferum (A)
Eucalyptus wandoo	Gossypiospermum
(A)	proerox (A)
Fagus sylvatica (B)	Greenheart (B)
Ficea abies(B)	Grevillea robusta (B)
Fir, Douglas(B)	Guarea cedrata (B)
Fir, Grand(A)	Guarea thomsonii
Fir, Noble (A)	(A)
Flindersia	Guarea, Black (A)
brayleyana (B)	Guarea, White (B)
Fraxinus Americana	Guibortia ehie (B)
(B)	Gum, American
Fraxinus excelsior	Red(A)
(A)	Gum, Saligna(B)
Fraxinus japonicus	Gum, Southern (B)
(A)	Gum, Spotted (A)
Fraxinus	Gurjun (A)

Hemlock, Western (B)	Larch, European (B)
Hevea brasiliensis (B)	Larch, Japanese (B)
Hiba (A)	Larch, Western (A)
Hickory (A)	Larix decidua (B)
Hyedunani (B)	Larix kaempferi (B)
Intsia bijuga(B)	Larix leptolepis (B)
Jarrah (B)	Larix occidentalis (A)
Jelutong (B)	Lime(B)
Juglans nigra (A)	Liquidamper styraciflua (A)
Juglans regia (B)	Locust/Robinia pseudoacacia (A)
Kapur (A)	Locust/Robinia pseudoacacia (A)
Karri A	Loliondo (B)
Kauri, New Zealand (B)	Lovoa klaineanaL (A)
Kauri, Queensland (A)	Lovoa trichiloides (A)
Keruing (A)	Iroko(A)
Khaya ivorensis (A)	Lronbank (B)
Khaya senegalensis (B)	Maesopsis eminii (A)
Kuroka (A)	

Mahogany, African
(A)
Mahogany, West
Indian (B)
Makore (B)
Mansonia (B)
Mansonia altissima
(B)
Maple, Pacific (A)
Maple, Queensland
(B)
Maple, Rock (A)
Maple, Sugar (A)
Matai (B)
Meranti, Red
(dark/light) (B)
Meranti, White (B)
Merbau (B)
Milletia
stuhimannii (A)
Mimusops heckelii
(B)

Missanda (B)
Mitragyna ciliata (B)
Muhuhi (A)
Muninga (B)
Musine (A)
Musízi (A)
Myrtle, Tasmanian
(A)
Nauclea diderrichii
(B)
Nesogordonia
papaverifera (B)
Nothofagus
cunninghamii (A)
Oak (White/Red) (A)
Oak (White/Red) (A)
Ochroma lagopus
(A)
Ochroma
pyramidalis (A)
Ocotea rodiaei (B)
Ocotea

usambarensis (B)	Pinus contorta (A)
Octomeles	Pinus lampertiana
sumatrana (B)	(B)
Olea hochstetteri	Pinus nigra(B)
(B)	Pinus palustris (B)
Olea welwitschii (B)	Pinus pinaster (B)
Palaquium spp (A)	Pinus ponderosa (B)
Paulownia	Pinus radiate (B)
tomentosa (A)	Pinus spp (B)
Pecan (B)	Pinus strobus (A)
pecan (B)	Pinus sylvestris (A)
Pericopsis elata (B)	Pinus thunbergii (B)
Picaenia excelsa (B)	Pipadeniastrum
Picea jezoensis	africanum (A)
(18-28%mc) (B)	Piptadenia africana
Picea jezoensis	(A)
(8-18%mc) (A)	Podocarpus
Picea sitchensis (B)	dacrydiodes (B)
Pine, Scots (A)	Podocarpus spicatus
Pine, Sugar (B)	(B)
Pine, Yellow (A)	Podocarpus totara
Pinus caribaea (B)	(B)

Poplar, Black (A)	Quercus robur (A)
Populus spp (A)	Quercus spp (A)
Prunus avium (A)	Quercus cerris (B)
Pseudotsuga	Quercus
menzesii (B)	delegatensis (B)
Pterocarpus	Quercus gigantean
angolensis (B)	(B)
Pterocarpus indicus	Ramin (B)
(B)	Redwood, Baltic
Pterocarpus soyausii	(European) (A)
(A)	Redwood,
Pterygota bequaertii	Californian (B)
(A)	Ricinodendron
Pterygota, African	heudelotti (A)
(A)	Rosewood, Indian
Pyinkado (B)	(A)
Qucensland Walnut	Rubberwood(B)
(B)	Santa Maria (B)
Queensland Kauri	Sapele (B)
(A)	Sarcocephalus
Quercas Alba (A)	diderrichii (B)
Quercas Alba (A)	Scottellia coriacea

(B)	Spruce, Sitka (B)
Sen (A)	Sterculia
Sequoia	rhinopetala (A)
sempervirens (B)	Sterculia, Brown (A)
Seraya, Red (B)	Stringybark,
Shorea smithiana	Messmate (B)
(B)	Stringybark, Yellow
Shorea spp (B)	(B)
Silky Oak, African (B)	Swietania candollei
Silky Oak, Australian	(A)
(B)	Swietania mahogani
Southern Cypress	(B)
(A)	Sycamore (A)
southern cypress (A)	Syncarpia
Split California Black	glomulifera (B)
Oak (A)	Syncarpia laurifolia
Spruce, Japanese	(B)
(18-28%mc) (B)	Tallowwood (A)
Spruce, Japanese	Tarrietia utilis (B)
(8-18%mc) (A)	Taxus baccata (B)
Spruce, Norway	Teak (A)
(European) (B)	Tectona grandis (A)

Terminalia superba (A)	Walnut, African (A)
Thuja plicata (B)	Walnut, American (A)
Thujopsis dolabrat (A)	Walnut, European (B)
Tieghamella heckelii (B)	Walnut, New Guinea (B)
Tilia americana (B)	Walnut, Queensland (B)
Tilia vulgaris (B)	
Totara (B)	Wandoo (A)
Triploehiton scleroxylon (B)	Wawa (B)
Tsuga heterophylla (B)	White Pine (A)
Turpentine (B)	white pine (A)
Ulmus americana (B)	Whitewood (B)
Ulmus procera (B)	Xylia dolabriformis (B)
Ulmus thomasii (B)	Yew (B)
Utile (A)	
Walnut (B)	
walnut (B)	

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