



MOISTURE METER USER MANUAL

*We've tried our best to make this manual understandable and useful.
You must read this instruction manual carefully before using your
moisture meter, and keep it safe for future reference.*



WHAT'S INSIDE THIS MANUAL

THE ABC'S OF SAFETY	4
Working environment	4
Maintenance	5
TECHNICAL SPECIFICATIONS	6
YOUR MOISTURE METER HOW TO'S	8
Button functions	9
Display functionality	10
Selecting the appropriate measurement mode	11
Measurement mode 1	11
Measurement mode 2	12
Measurement mode 3	12
Measurement mode 4	13
How to use your moisture meter	14
How to use the HOLD and SCAN modes	15
How to use the MAX and MIN modes	15
Tips for measuring moisture in wood	16
Understanding wood moisture readings	16
Tips for measuring moisture in building materials	17
Understanding building material moisture readings	18
How to replace the measurement pins	18
MOISTURE METER FAQ	19
WARRANTY	21
HOW TO CONTACT NOCRY	22

THE ABC'S OF SAFETY

Please, **please** read all safety instructions before using your moisture meter - they're pretty reasonable. And when you're done, **please save this manual for future reference.** Reviewing it once in a while in between moisture meter uses and instructing others won't hurt either - in fact, we strongly recommend it.

WORKING ENVIRONMENT

- ✓ **Do not use your moisture meter outside of its operating temperature range of 32 °F to 122 °F (0 °C to 50 °C).** If the air temperature of the space you're trying to take measurements in is outside of this range, the moisture meter will most likely not work and fail to provide you with precise measurements.
- ✓ **Do not use your moisture meter outside of its operating humidity (RH) range of 0 to 85%.** We'd say that it's a wide enough range to cover you in most spaces, but just in case, find out the air humidity level in your workspace before putting the moisture meter to work.

MAINTENANCE

- ✓ **It takes 3 seconds to keep your moisture meter clean.** Wipe the body with a dry cloth on a regular basis, and do not use abrasives or solvents for cleaning it. That's it - it's THAT simple.
- ✓ **There's a couple of places you shouldn't store your moisture meter in.** Everything near water or dusty environments, environments with a high level of salinity, sulfur or other chemical substances, or environments with high temperatures or humidity would be a no-go.

TECHNICAL SPECIFICATIONS



NOCRY MOISTURE METER

Dimensions	6 27/64 x 2 7/16 x 1 3/16in 163 x 62 x 30mm
Electrode pin length	25/64in 10mm (replaceable)
Weight	5.4oz 153g (with battery)
Power supply	One 9V 006P, NEDA1604 or IEC6F22 battery (included)
Display type	LCD with backlight option
Operating temperature	32~122 °F 0~50 °C
Operating humidity	0~85% RH
Moisture measurement range	1~70% MC for wood 0.1~2.4% MC for building materials
Moisture measurement accuracy	±1% for wood with 0~30% MC ±2% for wood with 30~60% MC ±3% for wood with 60~70% MC ±0.5% for building materials
Temperature measurement range	-4 ° to 158 °F -20 °C to 70 °C
Temperature measurement accuracy	±2.7 °F for temperature readings between -4 °F and 158 °F ±1.5 °C for temperature readings between -20 °C and 70 °C
Auto power-off	Yes, after 120 seconds of inactivity

NB! Your moisture meter comes with a carry pouch, a 9V battery, a spare pair of electrode pins, and this user manual...obviously. If there's anything missing in the package, please drop a message to wecare@nocry.com to let us know.






YOUR MOISTURE METER HOW TO'S

Your moisture meter is designed for determining the moisture level and temperature in various woods and building materials (see the materials list on pages 11-13). **Please only use the moisture meter for its intended purpose.**

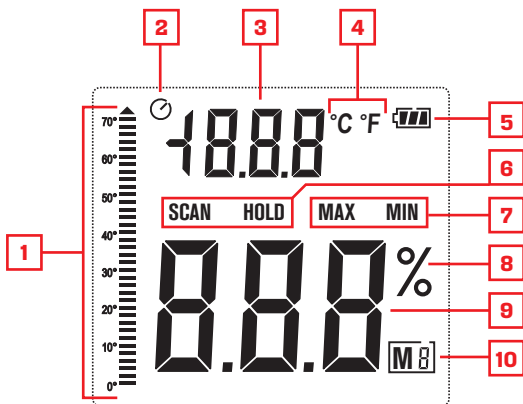
Some additional things to keep in mind:

- ✓ The cap has been designed to fit over the pins securely, and not fall off when in your tool bag, or lying around. **The easiest way to remove the protective cap** is by holding the moisture meter in both hands and pushing the cap backwards with your thumbs.
- ✓ **Your moisture meter has already been calibrated before delivery.** Please do not revise the calibration parameters without professional equipment and qualified personnel.
- ✓ **If you're putting your moisture meter in storage for a longer time,** remove the battery first.
- ✓ **Keep corrosive liquids away** from your moisture meter and the electrode pins to not damage them.
- ✓ **Be careful around the electrode pins** - they're very sharp. Cover them with the protective cap when you're not using the moisture meter.

BUTTON FUNCTIONS

	On-Off button Yes, you guessed it – press this button to turn your moisture meter on, and press and hold to turn it off.
	Temperature unit conversion button When the meter is on, press this button to set the temperature measurement to either °C or °F.
	Display backlight and HOLD-SCAN setting button Press this button once when in measurement mode to switch between SCAN and HOLD modes. Long press this button to turn the backlight on or off.
	Measurement mode selection button When the moisture meter is turned on, press the MODE button to select the suitable measurement mode for the material you're going to measure (see the "Selecting the appropriate measurement mode" section on pages 11-13).
	MAX-MIN measurement mode selection button In measurement mode, press this key to enter into MAX or MIN mode. Press this key momentarily, MAX icon will appear on the LCD, which indicates the current maximum reading; press this key again to enter into MIN mode, which indicates the current minimum reading. Press this key once again to back to the normal measurement mode.

DISPLAY FUNCTIONALITY



- 1** Graphical display of the moisture level.
- 2** Auto Power Off indicator.
- 3** Numerical reading of the ambient temperature.
- 4** Selected temperature mode.
- 5** Battery charge indicator.
- 6** SCAN and HOLD mode indicators.
- 7** MAX and MIN measurement activity indicator.
- 8** Moisture percentage.
- 9** Numerical reading of the moisture level.
- 10** Selected material mode.

NB! If the display is showing OH or OL, then this means that the moisture content in the material exceeds the maximum (OH) or minimum (OL) measuring range of the moisture meter (1~70% MC for wood, 0.1~2.4% MC for building materials).

SELECTING THE APPROPRIATE MEASUREMENT MODE

In doubt about which measurement mode to choose for the material at hand? We've got you covered:

MEASUREMENT MODE 1

Abachi	Abura	Afara (Black)	Agba
Aiele	Alder	Andiroba	Ash
Aspen	Balsa	Basralocus	Beech (European)
Birch (Red, Yellow)	Wood board	Campeachy	Cedar
Chestnut (Sweet, Red)	Cupressus lusitanica	Cypress (Patagonian)	Dabema
Douka	Ebiara	Ebony	Elm
Emien	Fir (Douglas)	Guanandi	Hornbeam (European, White)
Ipe	Iroko	Izombe	Jarrah
Juniper	Kapok	Karri	Limba
Lime (Small-leaved, Small-leaved American)	Logwood	Mahogany (African)	Maple
Mockernut	Niangon	Niove	Oak (Common, Holm, Red, White)
Okoume	Pear	Pine (Parana, Southern)	Poplar (Hickory, Hickory silver)
Purpleheart	Rosewood (Common, Rio)	Teak	Walnut
Willow			

MEASUREMENT MODE 2

Aspen (Common)	Beech (White)	Birch (White)	Board (Fibre, Kaurane particle, Wood fibre)
Cedar (Western Red)	Cherry	Cypress (Red)	Damson
Elm	Kosipo	Larch	Limba
Mahogany (Common, Cherry)	Maple (White)	Paper	Pine (Common, Maritime, Swiss)
Plum	Poplar (Common, White)	Sandalwood (Red)	Textiles
Walnut			

MEASUREMENT MODE 3

Afromosia	Board (Melamine particle, Phenolic resin particle, plywood)	Cork	Imbuia
Kokrodua	Niove Bidinkala	Rubber tree	Tola (Real, Red)

MEASUREMENT MODE 4

Cement (Regular, B25, B35, Mortar)	Chipboard (Cement bonded)	Concrete (Aerated)	Flooring (DIN magnesium oxychloride)
Lime mortar	Plaster/Drywall (Gypsum)	Screed (Regular, Anhydrite, Ardurapid cement, Cement with bitumen additive, Cement with plastic additive, Elastizel, Gypsum, Wood cement)	Wood softboard with bitumen

HOW TO USE YOUR MOISTURE METER

- 1** Open the battery cover in the back and install a 9V battery - there is one included in the package.
- 2** Remove the protective cap by pushing it backwards with your thumbs to expose the electrode pins. Make sure that the pins are screwed on tight and secure.
- 3** Turn the moisture meter on, and select the suitable measurement mode for the material you're going to measure - you might find pages 11-13 useful for this.
- 4** When measuring the moisture level, push the electrode pins as far as possible into the material.
- 5** Take several readings in several locations of the material for the best representation of the amount of moisture present. The measured values will be displayed on the LCD.
- 6** When the low battery icon appears empty (no bars inside the battery icon) or the device is displaying "Lob" on the screen, replace the moisture meter's battery with a new one.

Pro tip: Your moisture meter has a temperature compensation function - if you're using the moisture meter in an ambient temperature with wide temperature change, wait for around 30 minutes to allow it to adjust before using.

HOW TO USE THE HOLD AND SCAN MODES

- ✓ When your moisture meter is set to the SCAN mode, it will actively take measurements of the surface. Once you remove the moisture meter from the material in SCAN mode, the moisture measurement will return to zero. However...
- ✓ If you set the moisture meter to the HOLD mode by pressing the SCAN-HOLD button (see page 9) while the measurement pins are still inside the material, the final measurement will remain on the display for up to 120 seconds, even after removing the moisture meter from the surface you're measuring.

HOW TO USE THE MAX AND MIN MODES

To make sure that the moisture measurements are as accurate as possible, you should measure at different points in the material, as there can be “moisture pockets” in wood. To increase the accuracy of the measurements even more, there is an option to take the minimum and maximum moisture content reading from the same spot.

- ✓ After you've inserted the moisture meter's measurement pins in the material, press the MAX/MIN measurement mode selection button once to activate the MAX (maximum moisture content reading) measurement mode, or once again to activate the MIN (minimum moisture content reading) measurement mode.

TIPS FOR MEASURING MOISTURE IN WOOD

- ✓ Stick the pins into the material perpendicular to the grain of the wood, as deep as possible.
- ✓ When measuring lumber, the closer to the core you can measure the wood, the more accurate your reading will be.
- ✓ Take measurements at multiple points.

UNDERSTANDING WOOD MOISTURE READINGS

Your moisture meter will give the most accurate readings if the moisture content (MC) in wood is between 5 and 30%. At about 30% MC, the wood is said to have reached the fiber saturation point (FSP), and the accuracy of the readings above this level is diminished to the point that they are no longer useful. Moisture from condensation, rain, fog etc. on the surface can give false readings.

So is the result you're getting within the norm?

- ✓ **Indoor wood flooring** moisture content reading should fall between 6 and 8%.
- ✓ **When installing hardwood floors**, make sure to check the moisture content of both the finished hardwood and the wood subfloor. The hardwood flooring should measure within the 2 to 4% range of the subfloor moisture, depending on the width of the finished hardwood.

- ✓ **For wood furniture**, 6 to 9% would be a normal moisture level reading, with interior softwood tolerating a slightly higher moisture level. In coastal regions or locations with high air humidity however, the range might be extended to 10%.
- ✓ **Wood construction** should typically measure between 9 and 14%. If the moisture content exceeds 14%, there is a high risk for wood shrinking, cupping, bowing etc., while if it's lower than 9%, the wood tends to become brittle and unsuitable for machining.
- ✓ **Seasoned firewood fit to burn** is considered to have a moisture content of 20% or less.
- ✓ **Lumber used for framing, exterior construction, and exterior furniture** normally ranges from 12% and 19% - anything untreated above that is susceptible to mold and decay.

TIPS FOR MEASURING MOISTURE IN BUILDING MATERIALS

- ✓ When searching for possible leaks or moisture problems, first check for signs of damp by sight to see if there are any obvious discolorations or other signs of moisture buildup.
- ✓ If no visible signs of moisture are present, use your hand to search for any spots that feel cold or damp.
- ✓ If no apparent damp areas can be located with your hand, take multiple readings until a damp area has been found.
- ✓ When the damp area is found, take multiple readings in circular configurations and outline where the damp starts, and where it is most concentrated.

UNDERSTANDING BUILDING MATERIAL MOISTURE READINGS

Make sure that the surface you're measuring is free from condensation, rain, fog etc., as it can result in false readings.

So is the result you're getting within the norm?

- ✓ Readings between 0.1-2.4% MC are to be expected for building materials, ranging from dry to damp, respectively.

HOW TO REPLACE THE MEASUREMENT PINS

The electrode measurement pins should be replaced once they break or become dull and cannot penetrate materials easily.

Here's how:

- 1 Loosen the pins from their base with an adjustable wrench, and unscrew them counterclockwise with your fingers, until they are removed.
- 2 Insert the replacement pins, and screw clockwise with your fingers until tight.
- 3 Use an adjustable wrench to tighten the pins further, until they are secure in place.

MOISTURE METER FAQ

- ✓ **Other moisture meters require that I adjust my reading to the temperature and humidity with special charts. Where can I find these charts?**

Your NoCry moisture meter is special in that it will automatically calibrate the temperature and humidity into giving you the accurate reading you need. All you need to do is choose the right measurement mode for the material you're testing (check pages 11-13), and the moisture meter will do the rest.

Note: If you rapidly change the environment where the moisture meter is taking measurements, let it sit in the new environment for 30-60 minutes to adapt.

- ✓ **My moisture meter isn't turning on when I press the ON-OFF button. What do I do?**

This could be due to improperly inserted battery, or the battery being empty. Open the back cap by sliding it downwards with your thumbs, and make sure that the battery is clipped in the snap connector. If removing the battery and clipping it back to the snap connector doesn't work, try changing the battery to a new one.

- ✓ **The readings from the same exact spot are very inconsistent. What's the problem?**

The electrode measurement pins are most likely loose, damaged or worn off. Try tightening them to the moisture meter, and performing another measurement. If the discrepancy in results is still there, replace the pins with new ones.

- ▼ **Do the pins actually have to be fully inside the material I'm trying to measure, or can they be inserted partially or just touch the surface?**

For the most accurate readings, the pins should penetrate the object at least partially - but do not press them too hard to not break them.

- ▼ **Can I use this moisture meter for measuring the moisture content in soil?**

No. For measuring the moisture content in soil, search for a moisture meter that's designed specifically for that purpose.

- ▼ **Can I use this moisture meter for measuring the moisture content in bamboo?**

No, this moisture meter is not calibrated specifically for bamboo - you will need a moisture meter with an adjustable specific gravity setting.

- ▼ **Does the glue in plywood affect the accuracy of moisture measurements?**

No - the moisture meter has been calibrated to measure plywood as is, so make sure that the correct measurement mode is selected (see pages 11-13), and use your moisture meter as you would use it on any other material.

- ▼ **What do the OH and OL readings mean?**

OH means Over High and OL means Over Low. In case of OH, the moisture content in the material exceeds the maximum measuring range of the moisture meter (1~70% MC for wood, 0.1~2.4% MC for building materials). OL is displayed when the moisture content is below the minimum measuring range.

WARRANTY

All NoCry products are inspected and tested to ensure their quality before leaving the factory. If you're not happy with your NoCry product, please contact us within 30 days of receiving it at **wecare@nocry.com** to return it for free for a replacement product or to receive a full refund. The choice is yours.

Each NoCry electric product is warranted to be free of defects in material and workmanship for the period of FOUR years from the date of original purchase. Warranty does not cover normal wear and tear, abuse, altered products, modifications, and products that have been repaired or attempted to be repaired by others than NoCry. At NoCry's discretion, a defective product will be repaired or replaced.

This warranty gives you specific legal rights, but may be superseded by any other rights or warranties in effect, which may vary from state to state (or based on your local jurisdiction). If you think you might have a defective product, please contact us at **wecare@nocry.com**. Our customer care team will be happy to help and start the (free) procedure to determine whether your product is defective.

NoCry's warranty applies to ONLY products being sold by Authorized Resellers. We regretfully will not provide any warranty for products sold by any other sources. Proof of purchase will be required to obtain warranty. Please review the warranty carefully, and contact us if you have any questions.

HOW TO CONTACT NOCRY

Thank you so much for joining the NoCry community with your moisture meter. If you have any questions or concerns, let us know by writing an email to **wecare@nocry.com**.

We'd also love to connect with you via social media. You can find us on Instagram, Facebook and Pinterest by searching "NoCry Tools & Gear".

If that's a tad bit too informal...

Model No.: NMM-2PBR
Identifier: NOCRY23USEU
Batch ID: NMM-2021-12

Registered seller information for European customers:

Business name: NoCry Ltd.
Trade register number: 12334982
VAT number: GB234003265

Business address:

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Instructions and DOC available at
www.nocry.com/instructions
www.nocry.eu/instructions.

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HOW DO YOU LIKE YOUR NEW NOCRY MOISTURE METER?

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by sharing an honest review of your experience
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