

Diesella



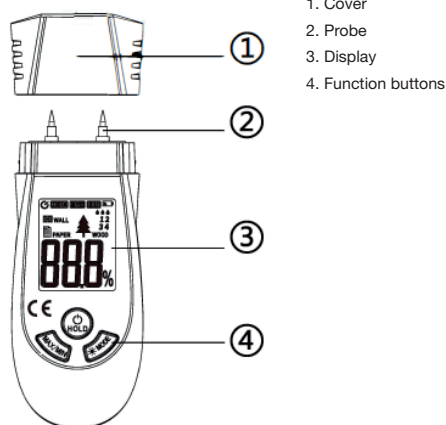
USERMANUAL

Moisture meter

Art. nr. 15130860

Thank you for choosing this moisture meter developed by Diesella. With this user manual, we aim to help you get started and ensure you have the best user experience. Keep this guide in a safe place for future reference or use.

DESCRIPTION OF THE DEVICE



MOISTURE METER

This moisture meter is designed and manufactured in accordance with GB/T1931-2009 method for determination of wood moisture content and JJG 986-2004 verification rules for wood moisture meters. A high-performance microchip is used as the core of the measurement control to achieve fast meter response, high precision, and low power consumption. There are 6 moisture measurement methods: 4 types of wood, paper, and walls. The portable size and large LCD screen make the product not only convenient to carry but also display clear figures. It is suitable for rapid moisture content measurement of raw wood materials, paper, plastered walls and floors.

This manual includes operating instructions and safety warnings. Please read it thoroughly before use and follow all safety warnings and precautions.

SAFETY INSTRUCTIONS

- Warning: The test probe on this meter is sharp and can cause bodily injury and damage the device. Please place the protective cover on the probe when you are finished using it, and store it properly in places that are inaccessible to children.
- Please carefully inspect the instrument and accessories before use. Stop using this instrument if you find any visible damage to the meter's casing or accessories, or any abnormalities on the display.
- Please follow the operating instructions in this manual while measuring.
- Do not open the meter or randomly change the internal wiring, as it may cause damage to the meter.
- Please change the battery when the undervoltage icon " " on the meter display lights up.
- Do not expose the test probe to charged objects as this may cause damage to the meter.
- Keep the instrument away from and do not use it in high temperature, high humidity, flammable and explosive and strong electromagnetic environment.

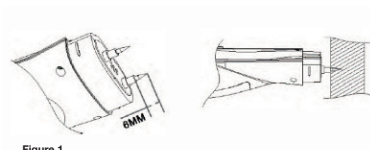
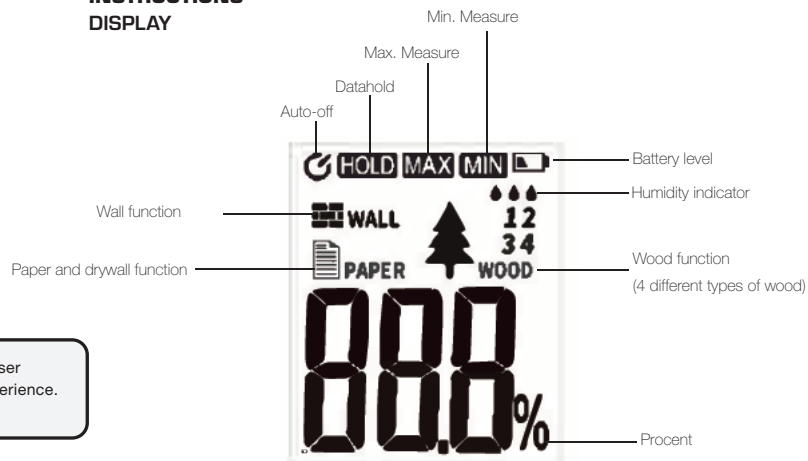


Figure 1

INSTRUCTIONS DISPLAY



FUNCTION BUTTONS



ON/OFF:

Press the button briefly to turn it on, and press and hold it for 2 seconds to turn it off.

HOLD: During the measurement process, press this button briefly to hold the data, and the HOLD icon will appear. Press the button briefly again to exit the data hold mode and resume normal measurement.

MODE Quick Press: Press briefly to switch between different wood types, paper materials, and wall modes. Upon powering on, the device will remember the mode it was in when it was last turned off.

Long Press: Press and hold to turn the backlight on or off. The backlight is on by default and has three colors: green, yellow, and red, representing moisture levels for different measurement types.

MAX/MIN Quick Press:: Press briefly to switch between maximum and minimum measurements. **Long Press:** Long press has no function.

When maximum or minimum measurement modes are selected, the instrument will continuously display the maximum or minimum reading.

AUTO-OFF

When the device is turned on, the auto-off function is enabled by default. The device will turn off if no buttons are pressed within 5 minutes.

TECHNICAL SPECIFICATIONS

Height: below 2000 meters
Pollution level: Level II
Operating temperature: -10 °C ~ 60 °C
Operating humidity: ≤75% RH
Storage temperature: -20 °C ~ 80 °C
Storage humidity: ≤75% RH
Battery: 2 x 1.5V AAA

MEASUREMENT

SPECIES OF TREES

- Press the on/off button once.
- Wait until the value stabilizes; then the value displayed on the screen should be the moisture content of the wood sample.
- During the measurement process, the MAX and MIN value measurement and value hold function can be activated or deactivated according to the icon instructions.

MEASUREMENT

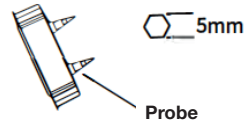
PAPER, DRYWALL AND WALL

- Press the on/off button once.
- Select paper or wall measurement mode.
- Remove the cover from the test probe sensor and insert it vertically into the paper or wall sample until it reaches 6 mm from the probe (See Figure 1).
- After the reading stabilizes, the screen will display the moisture content value of the tested sample.
- During the measurement process, the maximum/minimum value measurement and data hold functions can be activated or deactivated according to the function button instructions.

Diesella

REPLACE THE PROBE

1. Turn off the instrument.
2. Use a 5.0 mm wrench to turn the probe counterclockwise and remove the probe.
3. Replace the probe with a new one and tighten it clockwise.



TABLES

Function	Measuring range	Accuracy	Reading	Material
Humidity Contents	2.0%-75.0%	± 1.0%	0,1%	Træsart 1: 2.0% ~ 25.0 Træsart 2: 3.0% ~ 30.0% Træsart 3: 4.0% ~ 35.0% Træsart 4: 5.0% ~ 40.0% Gips: 5.0% ~ 5.0% Væg: 1.5% ~ 30.0%
Display	Maximum value "75.0%"			

COMPARISON TABLE MODE

Background lighting	Standard or low humidity: green; medium humidity: yellow; high humidity: red; the backlight can be turned off manually.		
Type	Low humidity: green	Medium humidity: yellow	High humidity: red
Wood type 1	≤1.9%	8.0%~11.9%	≥ 12.0%
Wood type 2	≤10.3%	10.4%~14.8%	≥ 14.9%
Wood type 3	≤12.7%	12.8%~17.6%	≥ 17.7%
Wood type 4	≤14.8%	14.9%~20.4%	≥ 20.5%
Paper	≤11.9%	12.0%~15.9%	≥ 16.0%
Wall	≤6.9%	7.0%~9.9%	≥ 10.0%

COMPARISON TABLE WOOD TYPES

Material	Type	Material	Type
Rhodesian	1	White ash	3
Afrormosia	1	Padauk	3
Brazilian walnut wood	1	Elm	3
Walnut	2	Hemlock	3
White poplar	2	Oak tree	3
Teak wood	2	Masson fir	4
Spruce	3	Chilensk wood	4
Douglas fir	3	White fir	4
Lauan	3	Lark	4
Ash	3	Apitong	4
White spruce	3	Birch	4
Maple	3	Basswood	4