

# Mini Moisture Meter

## #850001E

# Instruction Manual

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# IMPORTANT SAFEGUARDS



Read these instructions carefully and retain them for future use. If this product is passed to a third party, then these instructions must be included.

When using electrical appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and/or injury to persons including the following:

~~!fiJime)a~~ **Risk of injury!** The pin-type probes are very sharp. Be careful while handling. Cover the pins with the protective cap when the product is not in use. In addition, the pin-type probes can damage the measured surface.

- Do not use if the product appears damaged or if it is not working properly. If in doubt, replace the product.
- Do not attempt repairs. There are no user serviceable parts.
- Do not expose the product itself to moisture. Otherwise the product can get damaged.

# Battery Warnings

- Always insert batteries correctly with regards to polarity (+ and -) marked on the battery and the product.
- Do not mix old and new batteries or batteries of different types or brands.
- Exhausted batteries should be immediately removed from product and properly disposed.
- Keep batteries out of the reach of children.
- Do not dispose of batteries in fire.
- Remove batteries from product if it is not to be used for an extended period of time.
- If the battery leaks avoid contact with skin and eyes. Rinse affected areas immediately with plenty of clean water, then consult a doctor.

**⚠ CAUTION** Never put batteries in mouth. If swallowed, contact your physician or local poison control center.



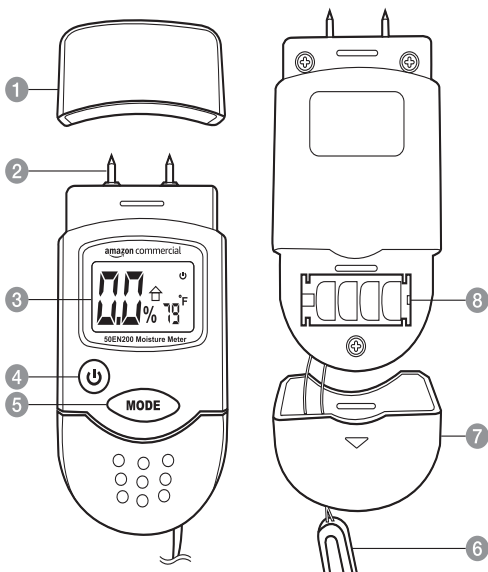
## Intended Use


- This product is intended for measuring moisture content in wood, paper, cardboard and building structures (wood, mortar, concrete or plaster).

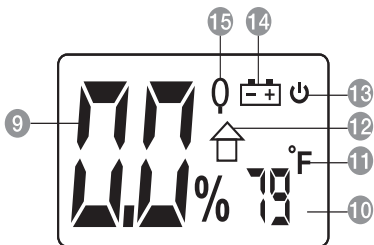
- This product does not provide a replacement for an officially calibrated measuring device.
- This product is intended to be used in dry areas only. Do not use it in rainy conditions.
- No liability will be accepted for damages resulting from improper use or non-compliance with these instructions.



## Product Description




- 1 Protective cap
- 2 Pin-type probe
- 3 Display
- 4  on/off button
- 5 **MODE** button
- 6 Wrist strap
- 7 Battery compartment cover
- 8 Battery compartment



- |    |                                  |    |                                     |
|----|----------------------------------|----|-------------------------------------|
| 9  | Moisture data                    | 13 | Auto Power Off (APO) mode indicator |
| 10 | Temperature value                | 14 | Low battery indicator               |
| 11 | Unit indicator                   | 15 | Wood material mode indicator        |
| 12 | Building material mode indicator |    |                                     |

## Changing Batteries

**NOTICE** Replace the batteries when the low battery indicator  is shown on the display.


- Remove the battery compartment cover.
- Place 4 x button cell batteries (LR44) into the battery compartment observing the correct polarity.
- Put the battery compartment cover back in place.






## Operation




### Switching the product on

Press and hold the on/off button  for 2 seconds. The display lights up.

### Switching the product off

Press and hold the on/off button  for 2 seconds again. The display goes off.

## Auto power-off (APO)

- This product switches off automatically after 2 minutes of inactivity by default.
- The APO mode is active when the icon  is shown on the display.
- To deactivate the APO mode press and hold the **MODE** button while the product is switched off and then press the on/off button  to switch the product on. The icon  is not shown on the display which indicates the product will not switch off automatically. You need to switch off the product manually.

## Changing the units

Press and hold the **MODE** button for 1 second to change the measurement unit.



## Changing the modes

Press the **MODE** button to toggle between wood  $\varnothing$  and building material  $\hat{\cup}$  moisture measurement mode.

## Backlight

Press the on/off button  $\cup$  to turn the backlight on or off.

## Memory function

The product memorizes the latest setting (unit, material and backlight) after switching off. When the product is switched on the previously used settings will be active.

## Measuring tips

- Measure several spots and take an average value.
- Remove the bark from firewood if needed. Press the measuring pins against the grain in various places on the wood.
- Ensure that both measuring pins touch the surface of the material at the same time. Slightly increase the pressure on the measuring pins for rough surfaces.



- For delicate surfaces complete the measurement on a section that is not in the visible area.

## Measuring

- Remove the protective cap.
- Press the measuring pins into the material. The measured moisture value is shown on the display.

## Cleaning and Maintenance

**NOTICE** Switch the product off before cleaning.

**NOTICE** During cleaning do not immerse the product in water or other liquids. Never hold the product under running water.

### Cleaning

- To clean the product, wipe with a soft, slightly moist cloth.
- Never use corrosive detergents, wire brushes, abrasive scourers, metal or sharp utensils to clean the product.

### Storage

- Always attach the protective cap when the product is not in use.
- Store the product in its original packaging in a dry area. Keep away from children and pets.

# Battery Disposal



Do not dispose of used batteries with your household waste. Take them to an appropriate disposal/collection site.



## Specifications

Measuring principle:	Electrical resistance
Measuring range:	Wood: 6 - 44 % Material: 0.2 - 2 %
Display resolution:	Wood: 1 % Material: 0.1 % Temperature: 1 °C
Accuracy:	Wood: ± 2 % Material: ± 0.2 % Temperature: ± 1 °C
Auto power-off:	After approx. 2 minutes
Power source:	4 x LR44 battery
Housing material:	Impact-proof plastic housing
Operating temperature:	32 - 122 °F (0 - 50 °C)
Operating relative humidity:	0 - 85 % RH

## WARRANTY

Sper Scientific warrants this product against defects in materials and workmanship for **one (1) year** from the date of purchase, and agrees to repair or replace any defective unit without charge. If your model has since been discontinued, an equivalent Sper Scientific product will be substituted if available. This warranty does not cover damage resulting from accident, misuse, or abuse of the product. To obtain warranty service, ship the unit postage prepaid to:

SPER SCIENTIFIC LTD,  
8281 E. Evans Rd., Suite 103  
Scottsdale, AZ 85260  
(480) 948-4448

The defective unit must be accompanied by a description of the problem and your return address. Register your product online at [www.sperwarranty.com](http://www.sperwarranty.com) within 10 days of purchase.