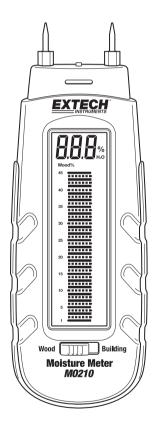


USER GUIDE

Moisture Meter

Model MO210



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Introduction

Thank you for selecting the Extech Model MO210. This device is shipped fully tested and calibrated and, with proper use, will provide years of reliable service. Please visit our website (www.extech.com) to check for the latest version of this User Guide, Product Updates, and Customer Support.

Safety

International Safety Symbols



This symbol, adjacent to another symbol or terminal, indicates the user must refer to the manual for further information.



This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present



Double insulation

Safety Notes

- Do not exceed the maximum allowable input range of any function.
- Set the function switch OFF when the device is not in use.
- Remove the battery if the device is to be stored for longer than 60 days.
- Never dispose of batteries in a fire. Batteries may explode or leak.
- Never mix battery types. Always install new batteries of the same type.

Warnings

- Set function switch to the appropriate position before measuring.
- Do not measure current on a circuit whose voltage exceeds 600V.
- When changing ranges always disconnect the test leads from the circuit under test.

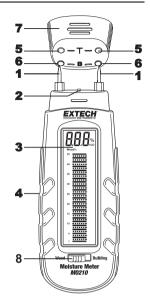
Cautions

- Improper use of this meter can cause damage, shock, injury or death. Read and understand this user manual before operating the meter.
- Always remove the test leads before replacing the battery.
- Inspect the condition of the test leads and the meter itself for any damage before operating the meter. Repair or replace any damage before use.
- Use great care when making measurements if the voltages are greater than 25VAC rms or 35VDC. These voltages are considered a shock hazard.
- Voltage checks on electrical outlets can be difficult and misleading because of the uncertainty of connection to the recessed electrical contacts. Other means should be used to ensure that the terminals are not "live"
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Description

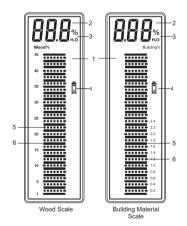
Meter Description

- 1. Measurement electrode pin
- 2. Cutoff switch
- 3. LCD (detail below)
- 4. Hand grip
- 5. Verification Test Points
- 6. Battery check Test Points
- 7. Removable cap
- 8. Material Selector Switch



Display Description

- 1. Graphical Display
- 2. Numerical Reading
- 3. Units
- 4. Low Battery Indicator
- 5. Solid lines even number
- 6. Dashed lines odd number



Operation

CAUTION: The electrode measurement pins are extremely sharp. Use care when handling this instrument. Cover the pins with the protective cap when the instrument is not in use.

- 1. Remove the protective cap to expose the electrode pins.
- 2. The meter automatically switches ON when the cap is removed.
- 3. The meter automatically shuts OFF when the cap is replaced.
- 4. To conserve battery life, the meter automatically shuts off after 15 minutes when the cap is left off. To revive the meter after an Auto Power OFF, simply press the yellow cut-off switch momentarily.
- 5. Slide material selection switch to read wood moisture or building moisture.
- 6. Carefully push the electrode pins as far as possible into the material under test. Note that the pins should be inserted into wood perpendicular to the wood's fiber structure.
- Take several readings in several locations on the material for the best representation of the amount of moisture present.
- 8. Read the measurement values on the display.
- 9. Replace the protective cap when finished.

Reading the Display

- 1. The LCD display has two scales
- 2. The wood scale indicates wood moisture from 6 to 44%.
- 3. The building materials scale indicates moisture content from 0.2 to 2.0%.
- A continuous line indicates an even number. A dotted line indicates on odd number.
- The battery icon appears when the batteries are weak and require replacement.

Wood Scale

Building Material Scale

Auto Power OFF

With the protective cap removed, the meter will turn off after 15 minutes to conserve battery life. Press the yellow cutoff switch momentarily to restart the meter. Always secure the protective cap when the instrument is not in use.

Instrument Measurement Verification check

- With the meter wood moisture position, touch the electrode test pins to the two test points 1 and 2 at the top of the protective cap labeled 'T'.
- With the unit on and the electrode pins touching the 'T' test points, the meter should read 27% ±2%. If not, the meter may require repair.

Battery Check

- With the meter wood moisture position, touch the electrode test pins to the two test points 3 and 4 at the top of the protective cap labeled 'B' (see diagram).
- With the unit on and the electrode pins touching the 'B' test points, the meter should read > 44% on the wood moisture scale. If not, replace the batteries.

Battery Replacement

If the instrument does not switch on, displays the low battery symbol, or if the Battery Check yields less than 44% on the wood moisture scale, replace the batteries as follows:

- Remove the Phillips head screw from the belt clip/battery compartment located on the rear of the instrument.
- 2. Remove the batteries taking note of their orientation and polarity.
- 3. Install three (3) new CR-2032 button batteries observing polarity.
- 4. Secure the battery compartment with the Phillips head screw.



You, as the end user, are legally bound (**EU Battery ordinance**) to return all used batteries, **disposal in the household garbage is prohibited!** You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold!

Disposal: Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle.

Battery Safety Reminders

- Please dispose of batteries responsibly; always observe local, state, and federal regulations with regard to battery disposal.
- · Never dispose of batteries in a fire. Batteries may explode or leak.
- Never mix battery types. Always install new batteries of the same type.

Electrode Pin Replacement

To replace the two electrode pins:

- 1. Remove the protective cap
- 2. Unscrew the electrode pins
- 3. Install the new pins
- 4. Replace the protective cap

Maintenance

- Always keep the instrument dry
- Prevent dirt from accumulating at the electrode pins

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Specifications

Display Dual measurement scale LCD with bargraph metering

Measurement principle Electrical resistance

Range Wood: 6 to 44%, Building materials: 0.2 to 2.4%

Electrode length 9.5mm (0.375")

Electrode pins Integrated, replaceable
Auto Power OFF After approx. 15 minutes
Power supply Three (3) CR-2032 button cells

Meter housing Impact-proof plastic
Operating Temperature 0 to 40°C (32 to 104°F)

Operating Humidity 85% Relative Humidity maximum Dimensions 130 x 40 x 25mm (5.1 x 1.6 x 1.0")

Weight 108.3g. (3.82 oz)

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