User Guide

EXTECH
INSTRUMENTS
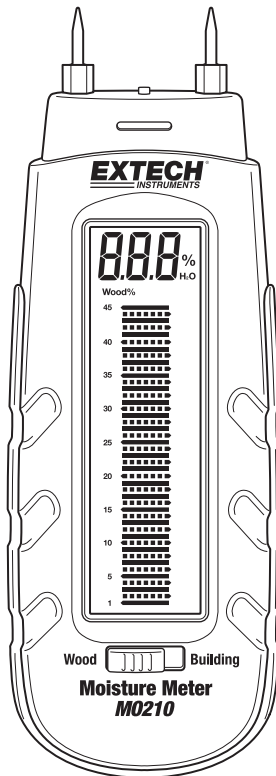
Moisture Meter

Model MO210

Introduction

Congratulations on your purchase of the Extech MO210 Moisture Meter. The MO210 detects moisture in wood and building materials such as wall board, sheet rock, cardboard, paper, plaster, concrete, and mortar. Careful use of this meter will provide years of reliable service.
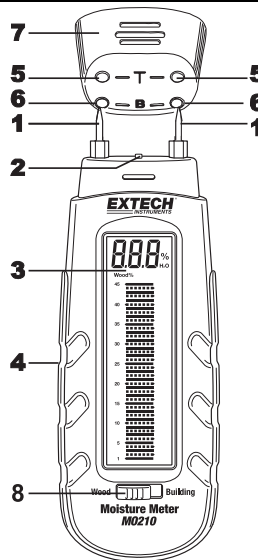
Specifications

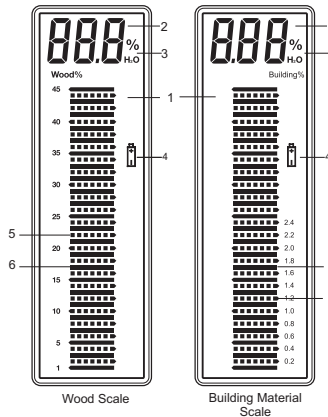|	
Display	Dual measurement scale LCD with bargraph metering
Measurement principle	Electrical resistance
Range	Wood: 6 to 44%, Building materials: 0.2 to 2.4%
Electrode length	0.3" (8mm)
Electrode pins	Integrated, replaceable
Auto Power OFF	After approx. 15 minutes
Power supply	Three (3) CR-2032 button cells
Meter housing	Impact-proof plastic
Operating Temperature	32 to 104°F (0 to 40°C)
Operating Humidity	85% Relative Humidity maximum
Dimensions	5.1 x 1.6 x 1.0" (130 x 40 x 25mm)
Weight	3.5 oz. (100g)

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
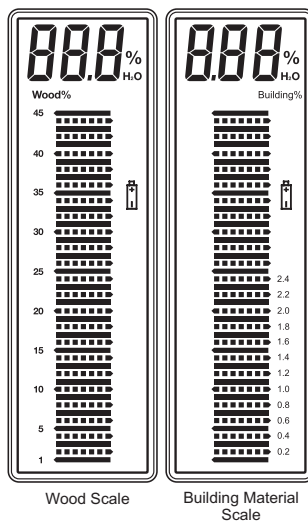5. Solid lines – even number
6. Dashed lines – odd number

Wood Scale

Building Material Scale

Model MO210 Version 1.0 Aug 2007

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 moisure.
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.
7. 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 (plaster, brick, concrete, mortar, etc.) indicates moisture content from 0.2 to 2.0%.
4. A continuous line indicates an even number. A dotted line indicates on odd number.
5. The battery icon appears when the batteries are weak and require replacement.

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.

Wood Scale   Building Material Scale

Instrument Measurement Verification check

1. 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'.
2. 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

1. 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).
2. 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:

1. 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.

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

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for **one year** from date of shipment (a six month limited warranty applies to sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

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