



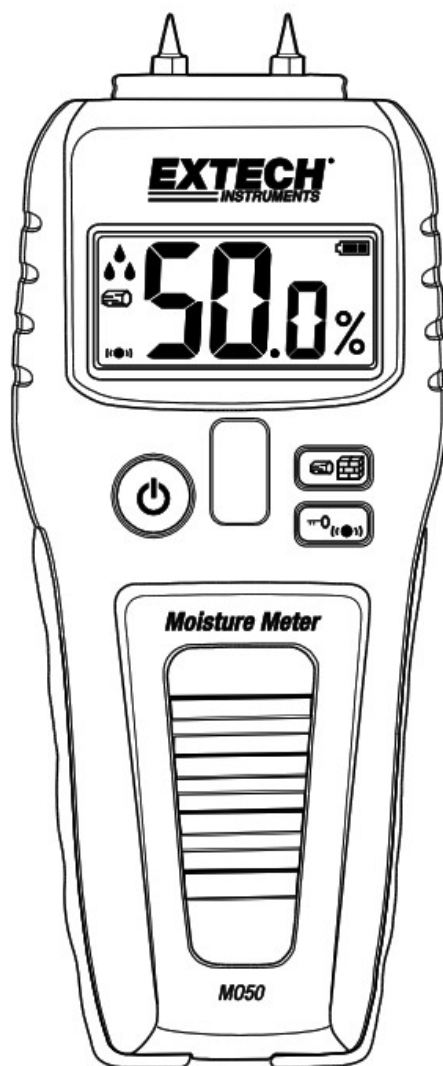
EXTECH Compact Moisture Meter MO50 User Manual

[Home](#) » [EXTECH](#) » EXTECH Compact Moisture Meter MO50 User Manual 

EXTECH®

USER MANUAL

Compact Moisture Meter Model MO50



Contents

- [1 Introduction](#)
- [2 Features](#)
- [3 Description](#)
- [4 Display Description](#)
- [5 Button Description](#)
- [6 Operation](#)
- [7 Operating Steps](#)
- [8 Maintenance](#)
- [9 Care and Cleaning](#)
- [10 Specifications](#)
- [11 Two-year Warranty](#)
- [12 Documents / Resources](#)
 - [12.1 References](#)
- [13 Related Posts](#)

Introduction

Thank you for selecting the Extech MO50 Moisture Meter. The compact MO50 takes quick Moisture level reference measurements (in percent %) on wood and building materials. The MO50 is simple to operate and offers measurement digits, audible tones, and 'moisture drop' icons to indicate moisture level content.

The MO50 is ideal for building restoration projects and applications where moisture detection on floors and under

carpets is critical. The MO50 is a great tool for analyzing the after-effects of water leakage behind walls and in ceilings.

This meter 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, Product Registration, and Customer Support.

Features

- Displays the moisture level in wood
- Displays the moisture level in building materials (wallboard, sheetrock, cardboard, plaster, concrete, and mortar)
- Audible tone rate beeps faster as the moisture level increases (8 tone variations)
- Moisture drop' Icons display low, medium, and high levels of moisture content
- Easy-to-use, compact design
- Display Lock freezes reading on the display
- Auto Power Off conserves battery power
- Complete with pins (2), protective cap, and 9V battery

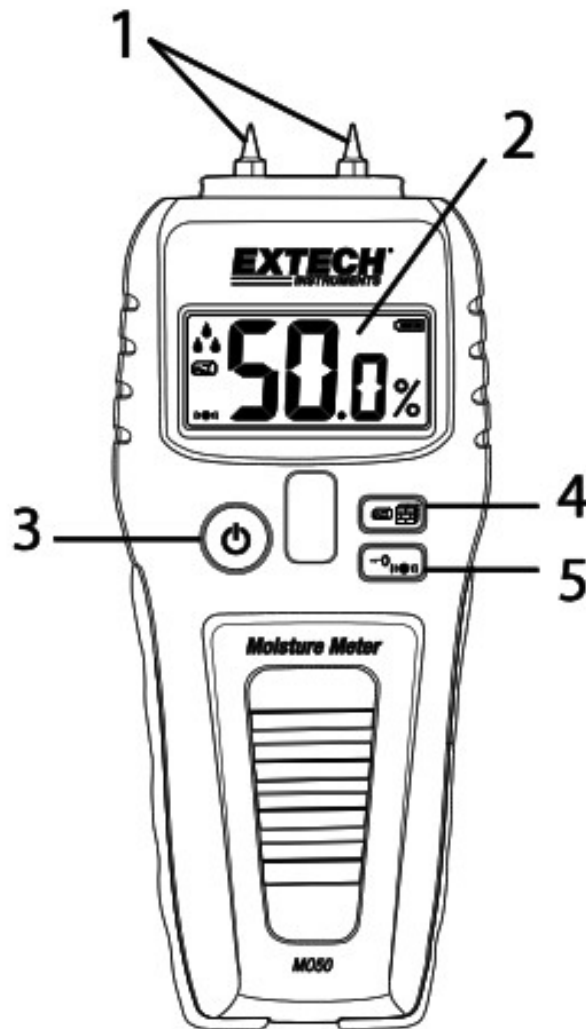
Description

Meter Description

1. Measurement pins
2. LCD Display
3. Power button
4. Material Select button
5. Display Lock/Beeper button

Notes:

Battery compartment on rear of meter Protective pin cover not shown






Display Description

1. Moisture Drop icons (1 droplet for low moisture content, 2 for medium, and 3 for high)
- 2.



- Wood mode
- 3. Building Material mode
- 4. Beeper active icon
- 5. Moisture reading digits
- 6. Percent moisture unit (relative)
- 7. Display Lock mode
- 8. Battery status icon

Button Description






| Button | Button name | Descripti |
|---|-------------------------------|--|
|  | Power ON-OFF | Press and hold to switch the meter ON or OFF |
|  | Material Select | Select Material Group (Wood, Building Materials) |
|  | Display Lock / Beeper control | Short press locks reading on the display Long pre: |

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.

Operating Steps

1. Carefully remove the protective/test cap to expose the electrode pins.
2. Switch the meter ON by pressing and holding the  button. The meter emits audible tones and the display switches on when the meter powers up. If the meter does not switch on please check the battery in the rear compartment.
3. Momentary presses of the Material Select button  toggles the Wood  and Building Material  modes of operation. The displayed icons indicate the selected mode.
4. Push the electrode pins into the material under test.
5. Observe the displayed reading in percent (%), view the displayed moisture droplet icon,  and listen for the audible tones.




1moisture droplet for low readings; 2 for medium readings; 3 for high readings; refer to the chart on the back of the meter and the reproduction in the Appendix later in this guide Listen, also, to the audible measurement tone (fast beeping for higher readings and slow beeping for lower readings). There are eight (8) tone variations

6. Press and hold the power button to switch the meter off.



Auto Power OFF (APO)

To conserve battery energy the meter automatically switches off after a three (3) minute period of inactivity.

Display Lock

Press the Display Lock button  to freeze the displayed reading. The  icon is visible on the display when Display Lock is active. Press  again to return to the normal operating mode.

Beeper ON/OFF

The beeper defaults to ON. To switch the beeper OFF, press and hold the Display Lock/Audible Beeper button . When the beeper is active the audio display icon  will be visible.

Self Test cap

Turn on the MO50 meter and set the meter to Wood or Building and press the electrode pins to the contacts on the top of the Protective/Test cap.

Expected results:

| | |
|-----------|---------------|
| Wood | 17.0 to 19.0% |
| Building: | 15.5 to 17.5% |

If the meter reads outside of these measurements replace the batteries. If it still reads outside If these measurements, the meter is defective and you should contact Extech.

Maintenance

Battery Replacement

When the battery status icon  appears empty or flashing, replace the battery.

1. Remove the rear battery compartment cover by pushing the compartment latch.
2. Replace the 9V battery observing correct polarity.
3. Replace the compartment door securely.
4. Dispose of battery responsibly and within applicable legal regulations.



Never dispose of used batteries or rechargeable batteries in household waste. As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

Disposal: Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.




Care and Cleaning

- When the instrument is not in use please keep the protective cap in place. The electrode pins are extremely sharp.
- Store the meter in an environmentally stable, dust-free environment, out of direct sunlight.
- Remove the battery from the instrument if the meter is to be stored for long periods or if the battery power symbol appears empty (or flashing) on the display.
- To clean the meter case, wipe with a damp cloth do not use solvents or abrasives.
- To clean the pins, wipe carefully with a damp cloth to remove residue; allow to dry well before use.

Specifications

| | |
|------------------------|--|
| Display | LCD with multi-function indicators |
| Measurement type | Relative Moisture Content (%) |
| Measurement principle | Electrical resistance |
| Measurement indication | Digital, Moisture Droplet icons (1, 2, or 3 droplets) and audible tone with 8 levels of intensity indicating low to high moisture readings |
| Measurement ranges | Wood Low: 5% to 11.9%; Medium: 12% to 15.9%; High: 16 to 50% Building Materials |
| Resolution | 0.1% |
| Accuracy | ±3.0% for ambient conditions 22°C to 25°C (72°F to 77°F) |
| Electrode pin length | 0.3" (8mm) |
| Electrode pin type | Stainless steel. Integrated, replaceable |
| Auto Power OFF | After approx. three (3) minutes |
| Power supply | One (1) 9V Battery (rear compartment) |
| Consumption | < 15mA |
| Low Battery indication | When battery voltage is < 7.0VDC, approximately |
| Operating conditions | 5~45°C (41~113°F); 80%RH max. |
| Storage conditions | 0~50°C (32~122°F); 85%RH max. |
| Dimensions | 170 x 65 x 30mm (6.7 x 2.6 x 1.2") |
| Weight | 120g (4.2 oz.) without battery |

Measurement Interpretation Table

| | | WOOD (%) | BUILDING MATERIALS (%) |
|---|--------|----------|------------------------|
| TOTAL RANGE > | | 5~50 | 1.5~33 |
|  | LOW | 5~9.9 | 1.5~9.9 |
| | | 10~11.9 | 10~16.9 |
|  | MEDIUM | 12~13.9 | 17~17.9 |
| | | 14~15.9 | 18~19.9 |
|  | HIGH | 16~19.9 | 20~23.9 |
| | | 20~29.9 | 24~27.9 |
| | | 30~39.9 | 28~29.9 |
| | | 40~50 | 30~33 |

Two-year Warranty

FLIR Systems, Inc. warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from the date of shipment (a six-month limited warranty applies to sensors and cables). To view the full warranty text please visit <http://www.extech.com/support/warranties>.

Calibration and Repair Services

FLIR Systems, Inc. offers calibration and repair services for the Extech brand products we sell. We offer NIST traceable calibration for most of our products. Contact us for information on calibration and repair availability, refer to the contact information below. Annual calibrations should be performed to verify meter performance and accuracy. Product specifications are subject to change without notice. Please visit our website for the most up-to-date product information: www.extech.com.

Contact Customer Support

Customer Support Telephone List: <https://support.flir.com/contact>

Calibration, Repair, and Returns: repair@extech.com

Technical Support: <https://support.flir.com>

Copyright © 2015-2020 FLIR Systems, Inc.

All rights reserved including the right of reproduction in whole or in part in any form
www.extech.com

MO50-en-US_V1.4 10/20

Documents / Resources

EXTECH USER MANUAL
Compact Moisture Meter
Model MO50



[EXTECH Compact Moisture Meter MO50](#) [pdf] User Manual
EXTECH, Compact, Moisture, Meter, MO50

References

- repair@extech.com
- [Extech is now on FLIR.com | Teledyne FLIR](#)
- [Extech is now on FLIR.com | Teledyne FLIR](#)
- [Extech Product Warranty | Teledyne FLIR](#)
- support.flir.com
- support.flir.com/
- support.flir.com/contact