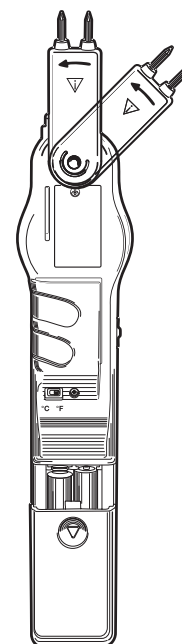


# User's Guide



## Moisture Detector Model MO100



### Introduction

Congratulations on your purchase of the Extech MO100 Moisture Detector. Readings are made by inserting the pins into the material being measured. Careful use of this meter will provide years of reliable service.

### Specifications

Display	Two LCD displays
Display Range Moisture	0 to 100
Temperature Range	32°F to 122°F (0°C to 50°C), Resolution: 0.2°
Data Hold	Front panel push-button freezes displayed reading
Sensor Structure	Two-prong pin sensor
Operating Temperature	32°F to 122°F (0°C to 50°C); 90% Relative Humidity (max.)
Power Supply	2 AAA batteries
Dimensions, Wt.	7.6 x 0.8 x 1.8" (192 x 30 x 45 mm), 3.8oz (108g)

### Operation

Before using, calibrate the instrument using the following steps.

1. Slide the Off/Test/Cal switch to the CAL position.
2. Adjust the rotary CAL adjustment until the display reads 100. (This is done to set a reference point.)  
Note: (The CAL adjustment knob is recessed to prevent it from being accidentally changed. Use an object with a tapered end to make adjustments.)
3. Slide the Off/Test/Cal switch to the TEST position
4. The meter is now ready to take readings

### Taking Readings

The following procedure is used to make relative or comparative readings of the moisture content in wood, wallboard or other materials. The readings you will obtain are relative indications of the moisture level NOT % moisture content. To freeze a reading in the display, press the HOLD button.

1. Slide the switch to TEST.
2. To establish a benchmark for the material you are reading Insert the sensor's test pins into a known dry (or acceptable) area of the material being tested. Insertion should be as deep as possible. Note this 'dry' reading.
3. Then insert the sensor's test pins into a known wet area of the material being tested. Insertion should be as deep as possible. Note this 'wet' reading.
4. Use these dry to wet readings as reference points to which subsequent readings are compared.

The tables below show typical dry and wet readings on some commonly tested materials.

Wallboard

Indication	Moisture Rating
0-5	Dry
6-14	Moist
>14	Wet

Wood

Indication	Moisture Rating
0 to 8	Dry
8-22	Moist
>22	Wet

Wood Scale Conversion (Approx.)	
Relative	%MC
2	15.5-16.5
4	16.5-17.5
8	17.5-18.5
16	18.5-19.5
22	19.5-20.5
30	20.5-21.5
38	21.5-22.5
44	22.5-23.5
62	23.5-24.5
68	24.5-25.5
72	25.5-26.5
76	26.5-27.5
78	27.5-28.5
83	28.5-30

### Converting Relative Readings to %Moisture Content

The readings obtained with this meter are relative indications of the moisture level NOT % moisture content. Please refer to the table for an approximate conversion of relative readings to % moisture content.

### Temperature Units

This meter displays ambient temperature. Readings can be displayed in °F or °C. Use slide switch on the back of the meter to select the appropriate unit of measure.

### Pin Replacement

For your convenience this meter uses threaded pins. To replace a pin, simply unscrew the pin from the meter and replace with a new one being careful not to over tighten.

### Safety Note:

The MO100 has a rotating head with a bush button lock release for your safety. Please remember to rotate the head back so that the pins are safely hidden inside the storage area.

### 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](http://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.

Copyright © 2004 Extech Instruments Corporation

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