

User's Guide

EXTECH[®]

INSTRUMENTS

A FLIR COMPANY

Soil Moisture Meter

Model MO750



Introduction

Congratulations on your purchase of this Extech Soil Moisture Meter. This meter has been designed to provide accurate measurements even in the harshest of environments. Features such as the large display, stainless steel probe and waterproof housing all contribute to the ease of use and the reliability you would expect from an Extech meter. This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

Features

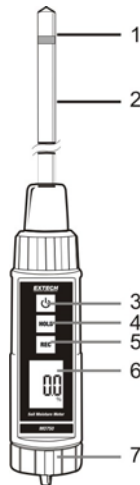
- Designed to check the moisture level of soil or other similar material.
- Measurement range: 0% to 50% moisture content of soil sample with 0.1% resolution.
- All in one digital soil meter, easy to operate.
- 8" Stainless steel probe
- Data hold function to freeze the value on the display.
- Operates from DC 1.5V (UM4/AAA) x 4 PCs batteries.
- Built-in low battery indicator.

Durable, long-lasting

components, enclosed in strong, compact ABS-plastic housing.

Meter Description

1. Moisture Sensing head
2. Moisture Probe
3. Power button
4. Hold button
5. Record button
6. LCD display
7. Battery compartment



Operation

Preparation for use

1. Align the probe connector keys with the meter connector, insert the probe onto the meter and secure the probe with the knurled locking ring.
2. Unscrew the battery cap, insert four AAA batteries (observe polarity) and re-secure the cap.
3. Remove the plastic probe tip cover.

Soil Measurement

1. Press the 'POWER' button to turn the meter ON.
2. Insert the probe into the soil
3. Read the % moisture in the display.

Data Hold

1. Press the 'HOLD' button to lock the measured value in the display. "HOLD" will appear in the display.
2. Press the "HOLD" button to return to normal operation.

Record (Max and MIN)


1. Press the 'REC' button to begin recording the maximum and minimum measured values. "REC" will appear in the display.
2. Press the 'REC' button again, MAX will appear in the display and the maximum value recorded will appear.
3. Press the 'REC' button again, MIN will appear in the display and the minimum value recorded will appear.
4. Press the "REC" button for 2 seconds to exit the record function.

Note: With in "REC – MAX" or "REC – MIN" in the display, pressing the HOLD button will clear the memory and record function will then continue, but with a continuous update.

Measurement Considerations

1. The probe head should normally be inserted at least 4" (10cm) into the soil..
2. If the soil's moisture content is very high, it may take several minutes to obtain a stable reading.

Low Battery

The Low Battery icon  will appear when the batteries need replacing. Replace the batteries as described in 'Preparation for Use'.

Specifications

Display	LCD
Measurement ranges	0 to 50% soil moisture
Accuracy	$\pm(5\% +5\text{digits})$ FS @23 \pm 5°C
Resolution	0.1%
Low battery indication	Battery symbol appears on the LCD
Power supply	(4) "AAA" batteries
Power current	12mA DC (Aprox)
Operating Temperature	32 to 122°F (0 to 50°C)
Operating Humidity	< 80% RH
Dimensions	Meter: 172 x 40 x 40 mm (6.8" x 1.6" x 1.6") Probe: 220 mm x Dia. 10 mm (8.7" x Dia. 0.4")
Weight	267g/0.58LB.with battery

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