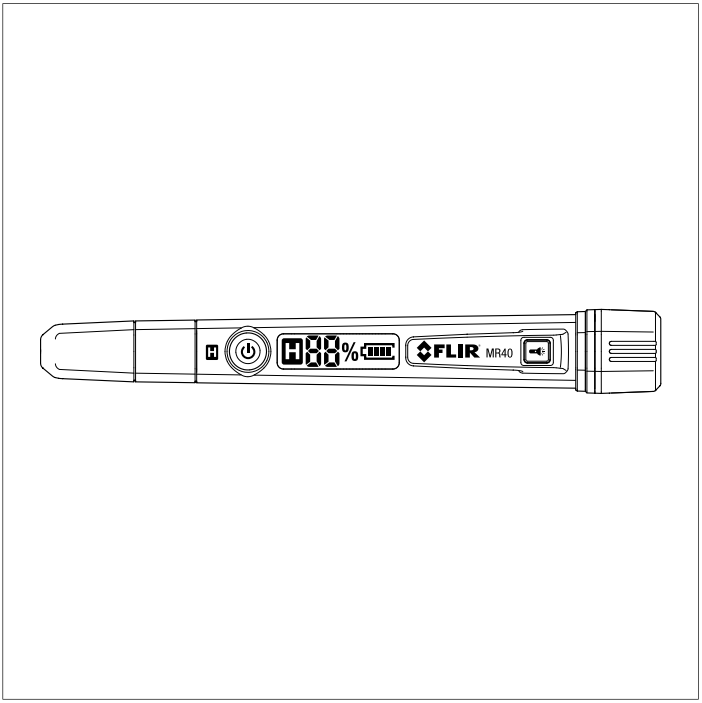
FLIR

User Manual

Pen Moisture Meter

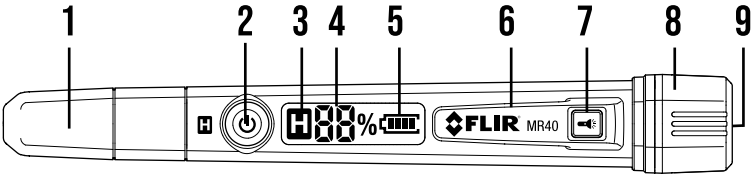
MODEL MR40



Introduction

Thank you for choosing the FLIR MR40 Pen Moisture Meter with high power flashlight. The MR40 measures moisture content (MC) in wood, brick, concrete and other building materials and traces leakage inside walls, ceilings, and floors.

Description



1. Electrode pins protective cap
2. Power/Display Hold button
3. Display Hold icon
4. Moisture Reading
5. Battery status icon
6. Pocket clip
7. Flashlight ON/OFF button
8. Battery compartment cap
9. Flashlight

Operation

⚠ **CAUTION**
Electrode pins are extremely sharp. Use protective cap when instrument is not in use.

1. Long press the Power button to switch MR40 ON/OFF. The LCD displays two blinking dashes, % symbol, and battery status icon. The MR40 automatically switches OFF after 3 minutes.
2. Remove the protective cap to expose the electrode pins.
3. Carefully push pins into material under test. Insert pins perpendicular to wood's fiber structure.
4. Take several readings in various locations for the best representation of the moisture present.
5. Read the LCD as follows:
   - Low pitch single beep indicates moisture from 5 to 12%.
   - High pitch single beep indicates moisture from 13 to 60%.
   - High pitch rapid beeping indicates moisture > 60% (**OL** displayed).
6. Short press the Power/Hold button to freeze a reading (**H** icon is displayed). Press again to exit.
7. Long press the flashlight button to switch the light ON or OFF.
8. Replace the protective cap when finished.

Battery Check and Replacement

The displayed battery bar indicates battery status. When the battery indicator has no bars and is flashing, replace the batteries. To replace batteries, twist off the battery compartment end-cap and replace the two ‘AAA’ batteries, observing correct polarity. Secure the compartment before use.

Do not dispose of used batteries or rechargeable batteries in household waste.

Specifications

Display	LCD
Measurement type	Electrical resistance
Range	5 to 60% MC (moisture content)
Accuracy	5 to 30% MC: ±2% of reading
	30 to 60% MC: Reference only
Note: Displayed reading is for Group 9/Building Materials, including plywood, drywall, and oriented strand board (OSB). For other materials, download the MR40 Material Conversion Chart (publication MR40-AN01): http://flir.custhelp.com/app/account/fl_downloads	
Resolution	1%
Electrode pins	Integrated, replaceable
Auto Power OFF (APO)	After three (3) minutes
Power supply	2 x 1.5 V ‘AAA’ batteries
Battery status indicators	Battery bar icon
Meter housing	Impact-proof plastic
Dimensions	7.6 x 1.0 x 0.8 in. (192.8 x 26.1 x 31.2 mm)
Weight	2.8 oz. (80 g) with batteries

Limited 3–Year Warranty

This product is protected by FLIR’s Limited 3-Year Warranty. Visit www.flir.com/testwarranty to read the warranty document.

Customer Support

Customer Support Telephone List	https://support.flir.com/contact
Repair, Calibration, and Technical Support	https://support.flir.com

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Website
http://www.flir.com

Customer support
http://support.flir.com

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