

## MR55

## PIN MOISTURE METER WITH BLUETOOTH

Optimize your workflow with wireless connectivity and a built-in library of 11 material-group settings for more accurate readings.

#### **KEY FEATURES**

- Wirelessly connect the meter to FLIR Tools Mobile to remotely view readings from your mobile device
- Tune the meter to the appropriate test material using a built-in library of 11 material groups, including timbers, drywall, and concrete
- Access the correct group number for test materials by scanning the QR code on the back of the meter with your mobile device



# UPGRADE YOUR MOISTURE METER WITH FLIR ACCESSORIES



#### MR01 Temperature/ RH Sensor

Replacement temperature and relative humidity sensor designed for use with the MR77, MR176, and MR277.



#### MR13 Temperature/ RH Sensor

Designed for use with the FLIR MR277 to take accurate temperature and humidity measurements. The MR13 is factory calibrated and features a protective cap. A metallic screw secures the probe in place.



### MR02 Standard External Pin Probe

Designed for use with the MR77, MR176, or MR277, the MR02 is an easily replaceable, calibrated pin probe.



#### MR11 Handheld Temperature & Humidity sensor accessory

Pre-deploy in dehumidifier exhaust vents for instantaneous readings, or use in locations where access is restricted, such as small holes inside wall cavities.



#### **MR04 Extension Pole**

Easily probe large and out-of-reach areas with this telescoping pole that extends up to 132 cm (52 in).



#### MR05\* Impact Probe

Easily test for moisture in challenging spots – on rough or uneven surfaces, in corners, in hard woods or high-density materials, and in areas without a dry reference.



## MR06\* Wall Cavity Probe

Penetrate into wall cavities and the inside face of exterior walls to measure insulation moisture levels.



#### **MR07 Hammer Probe**

Take measurements in the subfloor through carpet, hardwood flooring, and hard materials that are difficult to penetrate with a standard pin probe.



#### MR08 Hammer/ Wall Probe

Comfortably hammer probe into vertical, angled, or inverted surfaces, and get down below carpet pads and the subfloor.



#### **MR09 Baseboard Probe**

Probe behind baseboards, wall trim, crown molding, and other inaccessible areas without requiring removal.



#### MR10-2 Protective Case

Safeguard your valuable FLIR T&M instruments with this durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.



### MR12 Ball probe moisture sensor accessory

Take non-invasive readings up to 100 mm (4 in) below a surface.

<sup>\*</sup>FLIR recommends using the MR05 or MR06 to test moisture in concrete/building materials. Please review your instruction manual for complete details.

# MOISTURE METER ACCESSORY COMPATIBILITY

#### FLIR MOISTURE KITS PROVIDE THE COMPLETE SOLUTION FOR FAST AND ACCURATE TROUBLESHOOTING



## FLIR MR160-KIT5 PROFESSIONAL IMAGING MOISTURE KIT

Kit includes the FLIR MR160 Imaging Moisture Meter and the FLIR MR08 Hammer/ Wall Cavity Probe.



#### MR160-KIT2 BUILDING INSPECTION KIT

Kit includes the FLIR MR160 Imaging Moisture Meter, the FLIR C3-X Compact Thermal Camera, and the FLIR MR06 Wall Cavity Probe accessory.



## FLIR MR176-KIT5 PROFESSIONAL IMAGING MOISTURE KIT

Kit includes the FLIR MR176 Imaging Moisture Meter, the FLIR MR08 Hammer/ Wall Cavity Combo Probe accessory, plus an extra FLIR MR01 Replaceable Temperature / Relative Humidity Sensor.



### MR176-KIT6 PROFESSIONAL REMEDIATION KIT

Kit includes the FLIR MR176 Imaging Moisture Meter, the FLIR E6-XT Thermal Imager, and the FLIR MR08 Hammer/ Wall Cavity Combo Probe.

Accessory/ Moisture Meter	MR40	MR55	MR59	MR60	MR77	MR160	MR176	MR265	MR277
MR01 Temperature/ Relative Humidity Sensor	-	-	-	-	х	-	х	-	х
MR13 Temperature/ Relative Humidity Sensor	-	-	-	-	-	-	-	-	х
MR11 Handheld Temperature/ Humidity Sensor	-	-	-	-	х	-	х	-	х
MR02 Standard Pin Probe	-	-	-	х	х	х	х	х	х
MR04 Extension Pole*	-	-	х	-	-	-	-	-	-
MR05 Impact Pin Probe	-	-	-	х	х	х	х	х	х
MR06 Wall Cavity Probe	-	-	-	х	х	х	х	х	х
MR07 Hammer Probe (with bag)	-	-	-	х	х	х	х	х	х
MR08 Hammer and Wall Cavity Probe Combo (with bag)	-	-	-	x	х	x	x	x	х
MR09 Baseboard Probe	-	-	-	х	х	х	х	х	х
MR12 Ball-Type Moisture Sensor	-	-	-	х	-	х	х	х	х
MR10-2 EVA Protective Case	-	-	-	х	х	х	х	х	х

<sup>\*</sup> The MR04 is compatible with the following accessories: MR05, MR06, MR11, MR12

# TECHNICAL SPECIFICATIONS







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	MR40	MR55	MR59	MR60						
Thermal Imaging										
IR Resolution (IGM)	_	_	-	_						
Field of View	_	_	_	_						
Thermal Image Palettes	_	_	_	_						
Display										
LCD with LED Backlight	LCD (no backlight)	Yes	Yes	_						
Color QVGA Display	_	_	_	2.3" 64K TFT graphic						
Moisture Detection										
Moisture Measurement	Pin	Pin	Pinless	Pin and pinless						
Pin Moisture Range	5% - 30% MC (±2% MC) 30% - 60% (reference only)	Wood groups (1-9): 7% - 30% MC (±2% MC) 30% - 99% (reference only) Construction material groups (10-11): 1 - 99% Group 10 (reference only) 1 - 35% Group 11 (reference only)		Wood groups (1-9): 7% - 30% MC (±1.5% MC) 30% - 100% (reference only) Construction material groups (10-11): 0 - 20% (reference only)						
Pinless Moisture Range	_	_	0 to 100% relative	0 to 100% relative						
Relative Humidity	_	0% - 20% (±5%) 20% - 80% (±3.5%) 80% - 100% (±5%)	_	_						
Pinless Moisture Depth	_	_	Up to 100 mm (4 in)*	Up to 19 mm (0.75 in)*						
Pin Moisture Material Types	Group 9 / building materials: plywood, drywall, and oriented strand board (OSB) **	9 wood groups, 2 construction material groups	_	9 wood groups, 2 construction material groups						
General										
Laser Pointer	_	_	_	_						
Saved Image File Format	_	_	_	.BMP with values overlaid						
.CSV Stored Data Format	_	_	_	Yes						
Stored Image Capacity	_	_	_	9,999 images						
IR Temperature	_	_	_	_						
Connectivity	_	Bluetooth (BLE)	Bluetooth (BLE)	_						
Temperature/RH Sensor Calculations	_	_	_	_						
Battery	2× AAA	2x 1.5 V AA	1x 9 V	Internal rechargeable Li ion						
Drop Test	3 m (9.8 ft)	2 m (6.6 ft)	2 m (6.6 ft)	3 m (9.8 ft)						

<sup>\*</sup>Depending on material under test

<sup>\*\*</sup> For materials other than Group 9 download the MR40 Material Conversion Table (publication MR40-AN01): http://flir.custhelp.com/app/account/fl\_download\_manuals

