

Product Datasheet - Technical Specifications



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FLIR MR77

P/N: MR77

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

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The FLIR MR77 moisture meter performs all the critical and advanced measurements professionals demand. Its rugged design with field-replaceable sensors is engineered to reduce downtime.

- Field-replaceable temperature and relative humidity (RH) sensor.
- The integrated infrared (IR) thermometer provides fast non-contact surface temperature measurements.
- The remote pin-type probe (included) allows for contact moisture readings.
- The large LCD screen clearly displays moisture, humidity, and air temperature levels.
- FLIR Tools Mobile connects the FLIR MR77 to your compatible smartphone and tablet via Bluetooth.
- METERLINK technology wirelessly integrates moisture readings on your image with FLIR thermal cameras.
- All the sensors you need: integrated pinless moisture sensor, temperature and RH, IR thermometer, and external moisture pin probe.

Features:

Grains per pound or grains per kilogram, dew point, condensation point, differential temperature (IR and dew point), material/wood groups, high/low humidity and moisture alarms, store, recall, minimum, maximum, data hold, auto power off, bright white LED backlight, low battery indication.

Measurement

Ambient temperature	0 to 50°C (32 to 122°F) ± 0.6°C (1.1°F)
RH at 20–30°C (68–86°F)	10–90% ± 2.5%
Pin moisture	<ul style="list-style-type: none"> • 7–30% (± 1.5% MC) • 30–100% (reference only)
Pin-less moisture range (accuracy)	0–99.9 relative measurement
IR temperature (8:1 distance to spot ratio)	20–0°C (–4 to 32°F) ± 5°C (± 9°F), 1–200°C (33–392°F), greater of ± 3.5% or ± 5°C (± 9°F)
IR emissivity	0.95 fixed
Sample rate	2 per second
Vapor pressure range (accuracy)	0.0–20.0 kPa, greater of ± 2.0% or 0.2 kPa
Dew point temperature range	–30 to 50°C (–22 to 122°F)
Mixing ratio range	0–999 GPP (0–160 g/kg)

Meter data

Bluetooth range (maximum)	10 m (32')
Bluetooth compatibility	FLIR Tools Mobile Android



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Meter data	
Category rating	N/A
Data recording	20 points internal
Warranty	https://www.flir.com/testwarranty
Calibration cycle	Annual (recommended)
Certifications	
Certifications	FCC
Complies with standards	FCC Class B
Power system	
Power requirements	9 V alkaline
Battery life	~100 hours with alkaline batteries (backlight and work light off)
Low battery voltage	N/A
Auto power off	~30 minutes with disable
Environmental data	
Operating ambient temperatures and RH	<ul style="list-style-type: none">• 0–50°C (32–122°F), 90% RH• 0–30°C (32–86°F), 75% RH• 30–40°C (86–104°F), 45% RH• 40–50°C (104–122°F)
Storage temperature and RH	–10 to 60°C (14–140°F), 90% RH maximum
Physical data	
Weight	0.29 kg (0.65 lb.), including batteries
Dimensions (H × W × L)	139 mm × 72 mm × 42 mm (5.4" × 2.8" × 1.7")
Material	<ul style="list-style-type: none">• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)• Thermoplastic elastomer (TPE)
Color	Gray, black
Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">• MR77 FLIR meter• MR01 temperature and RH sensor• MR02 wired pin probe• 9 V Energizer battery• User manual (English), CD (translations)
Packaging weight	0.70 kg (1.54 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3" × 4.8" × 11.8")
Carton weight	15.00 kg (33.07 lb.)
Carton dimensions (H × W × L)	57 cm × 30 cm × 65 cm (22.4" × 11.8" × 52.6")
Carton quantity	20
EAN-13	0793950370773
UPC-12	793950370773
Country of origin	China
Tariff code	9025803500
Technical support	
Website	http://support.flir.com



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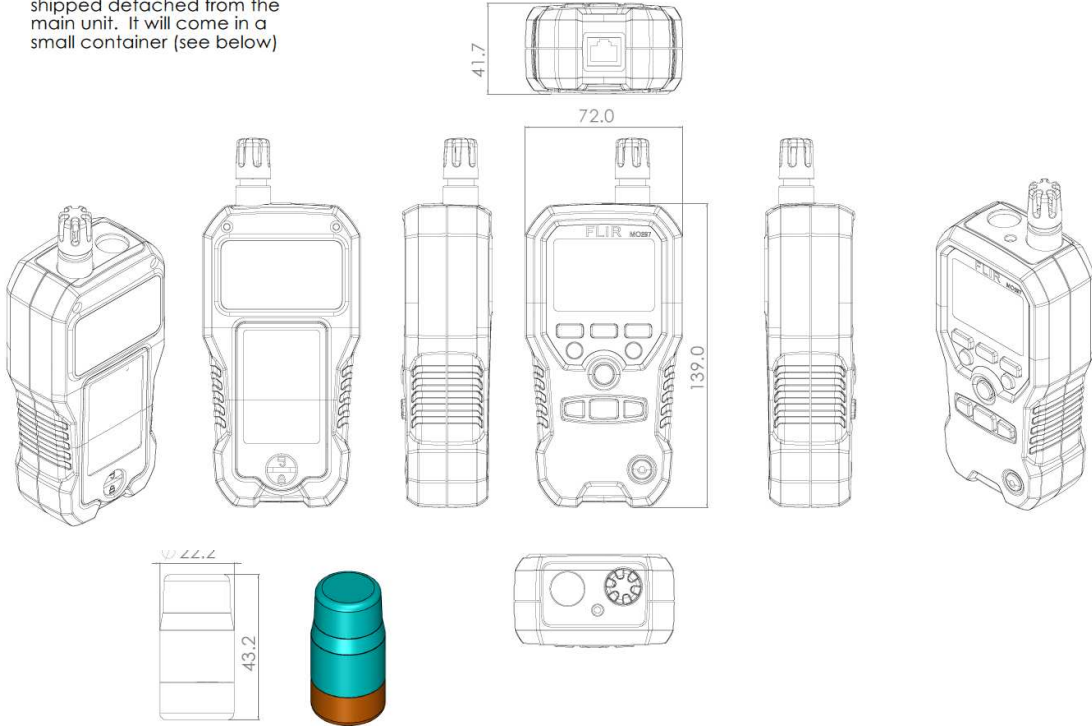
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Supplies & accessories:

- MR11; FLIR MR11: Handheld Temperature & Humidity sensor accessory
 - MR01; Replaceable T/RH Probe for MR77
 - MR02; Replaceable External Moisture Pin Probe for MR77
 - MR05; Impact Pin Moisture Probe
 - MR06; Wall Cavity Probe
 - MR07; Hammer Probe
 - MR08; Hammer and Wall Cavity Probe Combo
 - MR09; Baseboard probe
 - MR10; EVA Protective case
 - MR10-2; Protective case for FLIR Moisture Meters
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NOTE: This sensor will be shipped detached from the main unit. It will come in a small container (see below)



Modified Date Monday, March 17, 2014	Modified By T&M Engineering
Description FLIR MR77, Units in mm	

