

## P/N: MR77

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: MR77

Release:

Commit: 29700

Language: en-US

Modified: 2015-10-16

Formatted: 2015-10-20

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



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	-28 to 77°C (-18 to 170°F) ± 2°C (3.6°F)
RH at 20–30°C (68–86°F)	0–10% ± 3% 10–90% ± 2.5% 90–99% ± 3%
Pin moisture via external probe range (accuracy)	0–99% WME ± 5%
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

**P/N: MR77**

© 2015, FLIR Systems, Inc.

#MR77; r. /29700; en-US

<b>Measurement</b>	
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 100°C (–22 to 199°F)
Mixing ratio range	0–999 GPP (0–160 g/kg)
<b>Meter data</b>	
Bluetooth range (maximum)	10 m (32')
Bluetooth compatibility	FLIR Tools Mobile Android
Category rating	N/A
Data recording	20 points internal
Warranty	Limited lifetime
Calibration cycle	Annual (recommended)
<b>Certifications</b>	
Certifications	FCC
Complies with standards	FCC Class B
<b>Power system</b>	
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
<b>Environmental data</b>	
Operating ambient temperatures and RH	<ul style="list-style-type: none"> <li>• 0–50°C (32–122°F), 90% RH</li> <li>• 0–30°C (32–86°F), 75% RH</li> <li>• 30–40°C (86–104°F), 45% RH</li> <li>• 40–50°C (104–122°F)</li> </ul>
Storage temperature and RH	–10 to 60°C (14–140°F), 90% RH maximum
<b>Physical data</b>	
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"> <li>• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"> <li>• MR77 FLIR meter</li> <li>• MR01 temperature and RH sensor</li> <li>• MR02 wired pin probe</li> <li>• 9 V Energizer battery</li> <li>• User manual (English), CD (translations)</li> </ul>
Packaging weight	0.70 kg (1.54 lb.)



## FLIR MR77

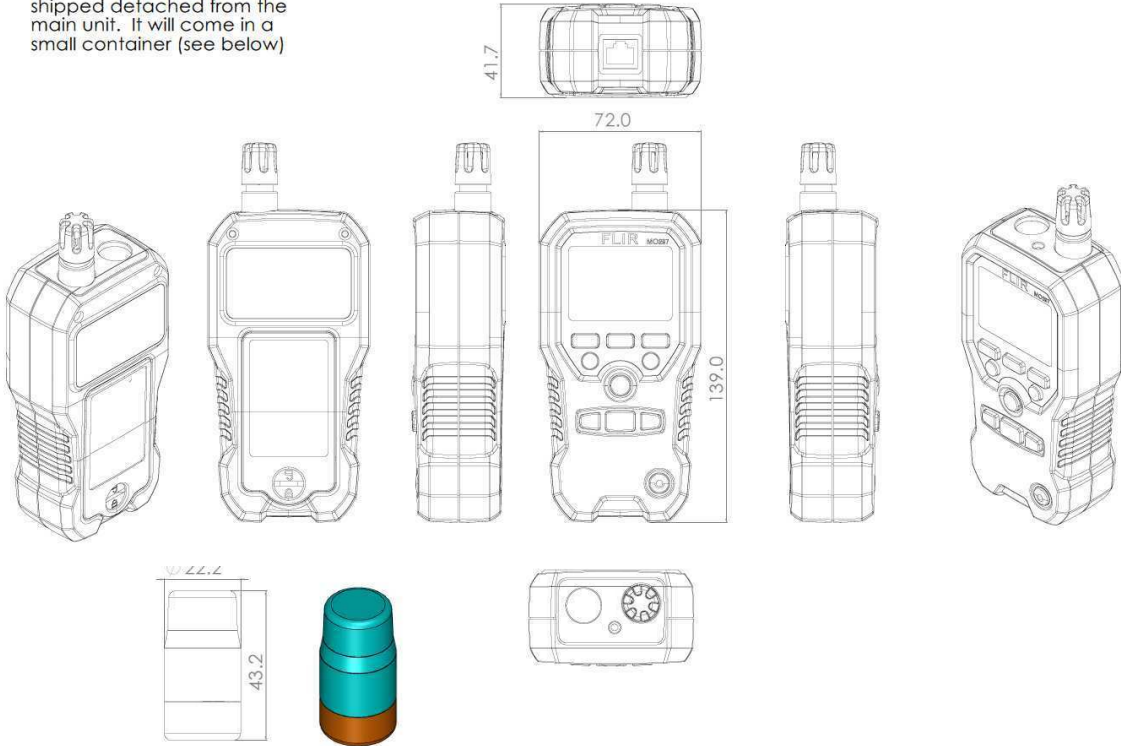
**P/N: MR77**

© 2015, FLIR Systems, Inc.  
#MR77; r. /29700; en-US

<b>Shipping information</b>	
Packaging dimensions (H x W x L)	13.5 cm x 11 cm x 30 cm (5.3" x 4.8" x 11.8")
Carton weight	15.00 kg (33.07 lb.)
Carton dimensions (H x W x L)	57 cm x 30 cm x 65 cm (22.4" x 11.8" x 52.6")
Carton quantity	20
EAN-13	0793950370773
UPC-12	793950370773
Country of origin	China
Tariff code	9025803500
<b>Accessories</b>	
MR01	Temperature/RH sensor
MR02	External pin moisture probe
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

© 2014, FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

NOTE: This sensor will be shipped detached from the main unit. It will come in a small container (see below)



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

