FLIR IM75–2: Insulation Tester and Digital Multimeter with METERLiNK

P/N: IM75-2

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http://www.flir.com

Customer support

http://support.flir.com

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General
The FLIR IM75-2 is both an advanced multifunction digital multimeter and a premier handheld insulation tester with functions for installation, troubleshooting and maintenance for professionals. The FLIR IM75-2 includes several specialty insulation modes such as polarization index, dielectric absorption, and earth bond resistance. Insulation tests can be performed instantly, continuously, and over a timed duration to allow for in-depth assessment. The multi-color LED indicator in compare mode makes pass/fail determinations easy and visible. METERLiNK connectivity to the FLIR METERLiNK app allows the remote display of readings on smart phones and tablets
• Advanced insulation modes: insulation resistance, polarization index, dielectric absorption, and earth bond resistance. • VFD mode for superior voltage and frequency accuracy, viewable on the dual LCD. • Remote viewing of real-time readings on Android and iOS mobile devices with the free app (FLIR Tools Mobile). • Document and analyze thermal changes during insulation measurements with METERLiNK FLIR thermal cameras. • Extremely bright work lights (dual LEDs). • Durable, rugged, double-molded construction. • Ready for work with accessories silicone CAT IV test leads with screw-on alligator clips, magnetic hanging strap, thermocouple adapter, and general-purpose bead probe.

Measurement	
Measurement rate	2 samples per second, nominal
Display rate	2 times per second
Input impedance	10 MΩ V DC/V AC <100 pF
AC voltage bandwidth	50–500 Hz
DC voltage	1000.0 V ± (0.1% + 5 digits)
AC voltage	1000.0 V: 50–60 Hz ± (1.5% + 5 digits), 61–500 Hz ± (2.0% + 5 digits)
VFD AC voltage	1000.0 V: 50–60 Hz ± (1.5% + 5 digits), 61–400 Hz, ± (5.0% + 5 digits)
Earth bond resistance	40.00 Ω ± (1.5% + 5 digits)* 400.0 Ω ± (1.5% + 3 digits) 4000 Ω ± (1.5% + 3 digits) 40.00 kΩ ± (1.5% + 3 digits)
Continuity	400.0 Ω ± (0.5% + 2 digits)
Diode	2.000 V ± (1.5% + 2 digits)

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Measurement	
Capacitance	1000 µF ± (1.2% + 2 digits) 10.00 mF ± (1.2% + 20 digits)
Frequency (AC V)	400.0 Hz ± 5 digits 4.000 kHz ± 5 digits 40.00 kHz ± 5 digits
Insulation resistance	4.000 MΩ ± (1.5% + 5 digits) 40.00 MΩ ± (1.5% + 5 digits) 400.0 MΩ ± (3.0% + 5 digits) 4000 MΩ ± (3.0% + 5 digits) 4.1–20.0 GΩ ± (10.0% + 3 digits)
Insulation resistance test voltages	50 V, 50.0 MΩ 100 V, 100.0 MΩ 250 V, 250.0 MΩ 500 V, 500.0 MΩ 1000 V, 20 GΩ
Polarization index (PI)	10 min in test/1 min in test
Dielectric absorption ratio (DAR)	1 min in test/30 s in test

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
Internal memory	99 storage locations
Warranty	https://www.flir.com/testwarranty
Over-current protection (fuse)	440 mA/1000 V, ceramic fast-blow fuse with a minimum interrupt rating of 10 kA

Certifications	
Agency approvals	FCC Class B, CE, UL, UKCA, RCM

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Earth bond resistance measurements: 2600 with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). Insulation resistance: 1100 insulation resistance tests with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). This does not include Bluetooth or backlight use.
Auto power off	User programmable: up to 30 minutes in 1 minute increments, with audible pre-alert (20 seconds)

Environmental data	
Operating temperature	32–122°F (0–50°C)
Operating humidity	Maximum 80% up to 95°F (35°C) decreasing linearly to 60% at 113°F (45°C)
Storage temperature	–4 to 140°F (–20 to 60°C)
Storage temperature and relative humidity	–20 to 60°C (–4 to 140°F), 80% maximum
Operating altitude	6561′ (2000 m)
Pollution degree	2
EMC	EN 61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument

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Declaration of conformity	See: https://support.flir.com/resources/DoC

Meter physical data	
Display	4000 count with bar graph
Controls	9-position rotary switch, 4-way selector pad with center OK/TEST button, LED (pass (green), fail (red)), dedicated function buttons (5: mode, cancel, hold/lock, Bluetooth, backlight)
Backlight	White LEDs
Work lights	Two white LEDs
Weight:	605 g (1.33 lb.), including batteries
Dimensions (H × W × L)	3.7″ × 8.1″ × 2.0″ (95 mm × 207 mm × 52 mm)
Material	PC-ABS, TPE
Color	Black

Shipping information	
Packaging type	Gift box
Packaging contents	• IM75-2 FLIR meter • Premium test probes with clips • Quick Start Guide • 6 × AAA Energizer batteries • Warranty Card
Packaging dimensions (H × W × L)	10.4 cm × 15 cm × 28.5 cm (4.09″ × 5.91″ × 11.22″)
Packaging weight	1.13 kg (2.49 lb.), including batteries
Carton weight	13.69 kg (30.19 lb.)
Carton dimensions	31 cm × 36.5 cm × 61 cm (12.2″ × 14.4″ × 24″)
Carton quantity	12
EAN-13	0793950372951
UPC-12	793950372951
Country of origin	Taiwan

Technical support	
Website	http://support.flir.com