



FLIR IM75-2™

Insulation Tester and Digital Multimeter
with METERLiNK®



Key Features:

- Advanced variable frequency drive (VFD) filtering, True RMS voltage measurements, and LoZ mode
- Durable, double-molded construction with IP54 rating and 3 m drop tested
- Seamless integration with METERLiNK® App

Main Applications:

- Ensuring safety standards to protect users from potential hazards
- Pinpointing insulation weaknesses that may lead to electrical faults
- Data logging and tracking changes in electrical and mechanical systems

www.flir.com/IM75-2

SPECIFICATIONS

Measurement rate	2 samples per second, nominal
Display rate	2 times per second
Input impedance	10 M Ω V DC/V AC <100 pF
AC voltage bandwidth	50 Hz to 500 Hz
DC voltage	1000.0 V $\pm$ (0.1% + 5 digits)
AC voltage	1000.0 V: 50 Hz to 60 Hz $\pm$ (1.5% + 5 digits), 61 Hz to 500 Hz $\pm$ (2.0% + 5 digits)
VFD AC voltage	1000.0 V: 50 Hz to 60 Hz $\pm$ (1.5% + 5 digits), 61 Hz to 400 Hz, $\pm$ (5.0% + 5 digits)
Earth bond resistance	40.00 Ω $\pm$ (1.5% + 5 digits) 400.0 Ω $\pm$ (1.5% + 3 digits) 4000 Ω $\pm$ (1.5% + 3 digits) 40.00 k Ω $\pm$ (1.5% + 3 digits)
Continuity	400.0 Ω $\pm$ (0.5% + 2 digits)
Diode	2.000 V $\pm$ (1.5% + 2 digits)
Capacitance	1000 μ F $\pm$ (1.2% + 2 digits) 10.00 mF $\pm$ (1.2% + 20 digits)
Frequency (AC V)	400.0 Hz $\pm$ 5 digits 4.000 kHz $\pm$ 5 digits 40.00 kHz $\pm$ 5 digits
Insulation resistance	4.000 M Ω $\pm$ (1.5% + 5 digits) 40.00 M Ω $\pm$ (1.5% + 5 digits) 400.0 M Ω $\pm$ (3.0% + 5 digits) 4000 M Ω $\pm$ (3.0% + 5 digits) 4.1 G to 20.0 G Ω $\pm$ (10.0% + 3 digits)
Insulation resistance test voltages	50 V, 50.0 M Ω 100 V, 100.0 M Ω 250 V, 250.0 M Ω 500 V, 500.0 M Ω 1000 V, 20 G Ω

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 $\times$ 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)

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

For more information contact: Sales@TeledyneFLIR.com
or to find your local support number, visit: flir.com/contactsupport
www.teledyneflir.com

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SPECIFICATIONS, CONT.

Environmental Data	
Operating temperature	0°C to 50°C (32°F to 122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Storage temperature and relative humidity	-20°C to 60°C (-4°F to 140°F), 80% maximum
Operating altitude	2000 m (6561 ft)
Pollution degree	2
EMC	EN 61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument
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
Worklights	Two white LEDs
Weight:	605 g (1.33 lb), including batteries
Dimensions (H × W × L)	95 mm × 207 mm × 52 mm (3.7 in × 8.1 in × 2.0 in)
Material	PC-ABS, TPE
In the Box	
Packaging contents	FLIR IM75-2 meter, Premium test probes with clips, Quick Start Guide, 6 × AAA Energizer batteries Warranty card
Technical Support	
Website	http://support.flir.com

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