

### 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 MΩ V DC/V AC <100 pF
AC voltage bandwidth	50 Hz to 500 Hz
DC voltage	1000.0 V ± (0.1% + 5 digits)
AC voltage	1000.0 V: 50 Hz to 60 Hz ± (1.5% + 5 digits), 61 Hz to 500 Hz ± (2.0% + 5 digits)
VFD AC voltage	1000.0 V: 50 Hz to 60 Hz ± (1.5% + 5 digits), 61 Hz to 400 Hz, ± (5.0% + 5 digits)
Earth bond resistance	$40.00 \Omega \pm (1.5\% + 5 \text{ digits})$ $400.0 \Omega \pm (1.5\% + 3 \text{ digits})$ $4000 \Omega \pm (1.5\% + 3 \text{ digits})$ $40.00 k\Omega \pm (1.5\% + 3 \text{ digits})$
Continuity	400.0 Ω ± (0.5% + 2 digits)
Diode	2.000 V ± (1.5% + 2 digits)
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 \ M\Omega \pm (1.5\% + 5 \ digits) $ $ 40.00 \ M\Omega \pm (1.5\% + 5 \ digits) $ $ 400.0 \ M\Omega \pm (3.0\% + 5 \ digits) $ $ 4000 \ M\Omega \pm (3.0\% + 5 \ digits) $ $ 4.1 \ G \ to \ 20.0 \ G\Omega \pm (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 $\Omega$ 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 $\Omega$ 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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## **FLIR IM75-2**™

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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 $\times$ W $\times$ 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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