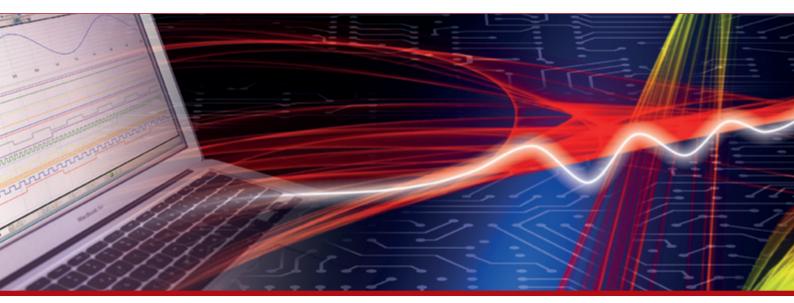


## **Product Datasheet - Technical Specifications**



More information in our Web-Shop at ▶ www.meilhaus.com

#### Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

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# 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

### **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	$ \begin{array}{l} 4.000 \; \text{M}\Omega \pm (1.5\% + 5 \; \text{digits}) \\ 40.00 \; \text{M}\Omega \pm (1.5\% + 5 \; \text{digits}) \\ 400.0 \; \text{M}\Omega \pm (3.0\% + 5 \; \text{digits}) \\ 4000 \; \text{M}\Omega \pm (3.0\% + 5 \; \text{digits}) \\ 4.1 \; \text{G} \; \text{to} \; 20.0 \; \text{G}\Omega \pm (10.0\% + 3 \; \text{digits}) \end{array} $
Insulation resistance test voltages	$50 \text{ V}, 50.0 \text{ M}\Omega$ $100 \text{ V}, 100.0 \text{ M}\Omega$ $250 \text{ V}, 250.0 \text{ M}\Omega$ $500 \text{ V}, 500.0 \text{ M}\Omega$ $1000 \text{ V}, 20 \text{ G}\Omega$

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.



# **FLIR IM75-2**<sup>™</sup>

Insulation Tester and Digital Multimeter with METERLINK®

### **SPECIFICATIONS**, CONT.

Environmental Data		
2		
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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