

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 | $\begin{array}{l} 40.00 \ \Omega \pm (1.5\% + 5 \ \text{digits}) \\ 400.0 \ \Omega \pm (1.5\% + 3 \ \text{digits}) \\ 4000 \ \Omega \pm (1.5\% + 3 \ \text{digits}) \\ 40.00 \ \kappa \Omega \pm (1.5\% + 3 \ \text{digits}) \end{array}$ |
| 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 \ \mbox{M}\Omega \pm (1.5\% + 5 \ \mbox{digits}) \\ 40.00 \ \mbox{M}\Omega \pm (1.5\% + 5 \ \mbox{digits}) \\ 400.0 \ \mbox{M}\Omega \pm (3.0\% + 5 \ \mbox{digits}) \\ 4000 \ \mbox{M}\Omega \pm (3.0\% + 5 \ \mbox{digits}) \\ 4.1 \ \mbox{G} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ |
| 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) | |

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 \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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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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