



### Key Features:

- Advanced variable frequency drive (VFD) filtering, True RMS voltage and current 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](http://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),<br>61 Hz to 500 Hz ± (2.0% + 5 digits)   |
| VFD AC voltage                      | 1000.0 V: 50 Hz to 60 Hz ± (1.5% + 5 digits),<br>61 Hz to 400 Hz, ± (5.0% + 5 digits)  |
| Earth bond resistance               | 40.00 Ω ± (1.5% + 5 digits)<br>400.0 Ω ± (1.5% + 3 digits)<br>4000 Ω ± (1.5% + 3 digits)<br>40.00 kΩ ± (1.5% + 3 digits)   |
| Continuity                          | 400.0 Ω ± (0.5% + 2 digits)  |
| Diode                               | 2.000 V ± (1.5% + 2 digits)  |
| Capacitance                         | 1000 μF ± (1.2% + 2 digits)<br>10.00 mF ± (1.2% + 20 digits)   |
| Frequency (AC V)                    | 400.0 Hz ± 5 digits<br>4.000 kHz ± 5 digits<br>40.00 kHz ± 5 digits  |
| Insulation resistance               | 4.000 MΩ ± (1.5% + 5 digits)<br>40.00 MΩ ± (1.5% + 5 digits)<br>400.0 MΩ ± (3.0% + 5 digits)<br>4000 MΩ ± (3.0% + 5 digits)<br>4.1 G to 20.0 GΩ ± (10.0% + 3 digits) |
| Insulation resistance test voltages | 50 V, 50.0 MΩ<br>100 V, 100.0 MΩ<br>250 V, 250.0 MΩ<br>500 V, 500.0 MΩ<br>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   |
| <b>Meter Data</b>                 |  |
| Category rating                   | CAT IV-600 V, CAT III-1000 V   |
| Internal memory                   | 99 storage locations   |
| Warranty                          | <a href="https://www.flir.com/testwarranty">https://www.flir.com/testwarranty</a>  |
| Over-current protection (fuse)    | 440 mA/1000 V, ceramic fast-blow fuse with a minimum interrupt rating of 10 kA   |
| <b>Certifications</b>             |  |
| Agency approvals                  | FCC Class B, CE, UL, UKCA, RCM   |
| <b>Power System</b>               |  |
| 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](http://flir.com).

For more information contact: [Sales@TeledyneFLIR.com](mailto:Sales@TeledyneFLIR.com)  
or to find your local support number, visit: [flir.com/contactsupport](http://flir.com/contactsupport)  
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IM75-2\_Datasheet-LTR 23-0403-INS



# FLIR IM75-2™

Insulation Tester and Digital Multimeter  
with METERLiNK®

## 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 x W x L)                    | 95 mm x 207 mm x 52 mm (3.7 in x 8.1 in x 2.0 in)  |
| Material                                  | PC-ABS, TPE  |
| In the Box                                |  |
| Packaging contents                        | FLIR IM75-2 meter,<br>Premium test probes with clips,<br>Quick Start Guide,<br>6 x AAA Energizer batteries<br>Warranty card  |
| Technical Support                         |  |
| Website                                   | <a href="http://support.flir.com">http://support.flir.com</a>  |

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For more information contact: [Sales@TeledyneFLIR.com](mailto:Sales@TeledyneFLIR.com)  
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