



Digital Leakage Current Tester

Model LT-952: For all 60950, 60335, and IEC 1010 based Standards

Includes ISO 17025 Accredited Calibration, in Scope for "Leakage Current"



The quickest, safest, most accurate and easiest to use solution in the industry!
Turns a 1-hour dangerous ordeal into a safe, quick & simple test

- Meets UL, CSA, IEC, CE, MIL, VDE, BSI and other international standards
- ED&D Exclusive = **ISO 17025** Accredited Calibration, in Scope for "Leakage Current"!
- Measures leakage current in accordance with major standards such as 60950, 60335, 6500 and 61010 and others based on IEC 60990 (see diagram next page)
- Tests products rated 100-120V **and** 200-240V at up to 15 Amps (for higher Amp products see LT-952HC)
- **True RMS** meter accurately measures both sinusoidal and non-sinusoidal waveshapes. This is important when testing products using a switch mode power supply, which can generate non-sinusoidal leakage currents.
- Front panel switch permits changing the meter reference point between **Line, Neutral or Ground**. An additional front panel switch permits testing either through the power cord of the product under test, from surface-to-ground, or from surface-to-surface (3 Phase, higher voltages, etc).
- Rear panel jacks allow for monitoring the leakage current **waveform** with an oscilloscope.
- 120 Volt, 15 Amp front panel receptacle allows for convenient testing of 120V products. Universal rear panel connector allows for testing products with any plug configuration rated 100-120 or 200-240V ($\pm 10\%$) at up to 15A.
- Lightweight with integral handle permits **portability**. Rugged, metallic enclosure ensures **durability**.

Educated Design & Development, Inc. ("ED&D")

901 Sheldon Drive • Cary (RTP), NC • 27513 USA •

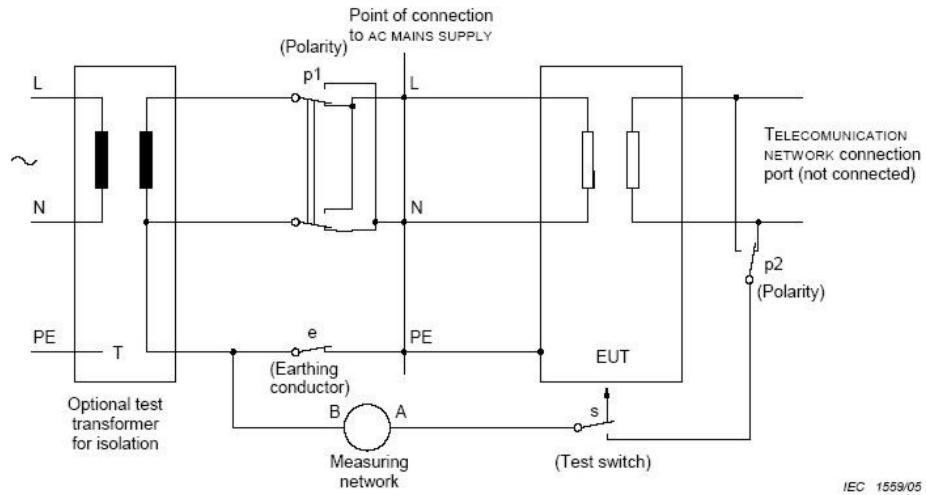
Phone: 800-806-6236 • International: 001-919-469-9434 • Fax: (919) 469-5743 •

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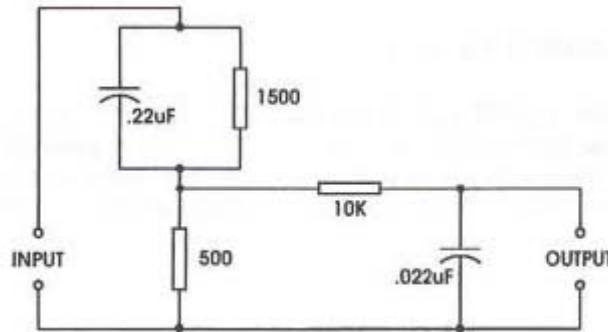
60950-1 © IEC:2005

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NOTE: This figure is derived from Figure 6 of IEC 60990.

Figure 5A – Test circuit for touch current of single-phase equipment on a star TN or TT power supply system



Body circuit model used in LT-952

NOTE: ED&D is on the IEC list of "Approved Vendors" for this device. Additionally the device is in use by UL, CSA, TUV, ETL, MET, Nemko, US Military Labs, and most major manufacturers throughout the world.

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LT-952 AND LT-952HC

CE LT-952



**950, 1010
and other
harmonized
Standards**

Input Ratings	LT-952: 100-120/200-240 VAC 15 Amps 50-60 Hz LT-952HC: 100-120/200-240 VAC 30 Amps 50-60 Hz Testing tolerance: 90-132 / 180-264 VAC
Output Ratings	Same as input ratings
Display	3-1/2 digit LCD display
Mechanical	Size: 5.5" X 11.5" X 13.25" Weight: 9lbs. (LT-952) 13lbs (LT-952HC)
Measurement Ranges	2 mA/Resolution: m1.0 uA, Accuracy: ± 1% 20 mA/Resolution: 10.0 uA, Accuracy: ± 1%
Body Impedance Circuits	Body Circuit per IEC 950 2nd edition, IEC 1010, and others based on IEC 990.
Meter measurement Ref. Selector Switch	Meter reference point can be set for: a) Line 1 (H) b) Line 2 (N) c) Ground
Leakage Current Measurement Switch	Leakage Current can be measured: a) Through product's power cord ground conductor b) Surface to Line 1, Line 2, or Ground c) Surface-to-Surface

IMPORTANT NOTES:

: The LT-952 and LT-952HC Leakage Current Testers may be used for testing numerous standards (i.e. IEC 60950, IEC 61010, IEC 60335). However, **ONLY users testing to IEC 60950, EN 60950, UL 60950, or CSA 60950 need the "Frequency Curve Calibration"** as it specifically addresses new high power calibration requirements added to these particular standards. *Users testing to other standards will achieve identical test results using the LT-952 or LT-952HC with or without this curve, it is only for calibration purposes.* Please let us know if this applies to you, so we can include it with the calibration; additional fees may apply.

Customers testing to **UL6500** = order the LT-952 with the access to **U₂ voltage** and measurement of leakage limits in **MIU** (as specified in UL6500) modification. *Some customers mistakenly believe they need readout in MIU's, ask for our white paper on this subject if concerned.*

Some customers also require our **Applied Voltage** optional accessory device, model **AVO-LT1**. It is designed to be a source of leakage (shock) current. The leakage current is applied to the product under test to determine if the product could sink leakage current. Applied Voltage testing is currently required in two types of products. The first is for testing isolated connections on medical products. Applied voltage testing is also required to simulate telecom ringing and power cross faults on telecom products.

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Rear Panel view

Unit Includes:

- Custom-cut form-fit foam padded package (keep for sending out for calibration). Packing and handling also included.
- **ISO 17025 Accredited** Certificate of Calibration - - with *specific Scope* for “Leakage Current”! Data and uncertainty data available.
- External meter leads
- User manual
- One year warranty standard. [**3-year warranty** with annual factory calibration].
- Free lifetime technical assistance.



NOTE: ED&D is the world’s first and **only** ISO 17025 Accredited manufacturer to obtain specific Scope of Accreditation for the category “Leakage Current”. *ED&D is accredited by the ANSI-ASQ National Accreditation Board under their brand “ACLASS”*



ED&D is recognized as the world’s most highly awarded product safety test equipment manufacturer. ED&D is a multi-winner of the Fast 50 award as well as an Inc. 5000 award winning company!

