1535/1537/1537-II
Insulation Tester

Safety Information

Limited Warranty.
See the Users Manual for the full warranty.

Introduction

The Fluke 1535/1537/1537-II Insulation Testers (the Tester or Product) are high-voltage insulation testers to validate general circuits, such as switchgear, motors, and cables.

Contact Fluke

To contact Fluke, call Technical Support China at +86-400-810-3435.

Fluke Corporation operates worldwide. For local contact information, go to our website: www.fluke.com.

To register your product, or to view, print, or download the latest manual or manual supplement, go to our website.

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Product Use Information

For Product use information, see the Users Manual which is online at www.fluke.com.

Safety Information

A Warning identifies hazardous conditions and procedures that are dangerous to the user.

PN 5585635, 8/2023 (English)

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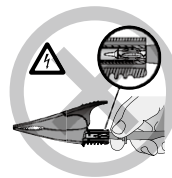
⚠⚠ Warning

To prevent possible electrical shock, fire, or personal injury:

- **Carefully read all instructions.**
- **Read all safety information before you use the Product.**
- **Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Do not use the Product if it is altered or damaged.**
- **Disable the Product if it is damaged.**
- **Do not use the Product if it operates incorrectly.**
- **Use Product-approved measurement category (CAT), voltage, and amperage rated accessories (probes, test leads, and adapters) for all measurements.**
- **Do not exceed the Measurement Category (CAT) rating of the lowest-rated individual component of a Product, probe, or accessory.**
- **Do not use in CAT III or CAT IV environments without the protective cap installed on test probe. The protective cap decreases the exposed probe metal to <4 mm. This decreases the possibility of arc flash from short circuits.**
- **Do not use a shrouded banana jack accessory such as an alligator clip with an unshrouded 4 mm banana probe tip terminal in a hazardous electrical installation. Due to the lack of a shroud, the probe tip connector does not provide suitable insulation to accessible parts with this type of assembly.**



- **Comply with local and national safety codes. Use personal protective equipment (approved rubber gloves, face protection, and flame-resistant clothes) to prevent shock and arc blast injury where hazardous live conductors are exposed.**
- **Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.**
- **Do not use test leads if they are damaged. Examine the test leads for damaged insulation, exposed metal, or if the wear indicator shows. Check test lead continuity.**
- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**

- **Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.**
- **Measure a known voltage first to make sure that the Product operates correctly.**
- **Limit operation to the specified measurement category, voltage, or amperage ratings.**
- **The battery door must be closed and locked before you operate the Product.**
- **Connect the common test lead before the live test lead and remove the live test lead before the common test lead.**
- **Remove all probes, test leads, and accessories before the battery door is opened.**
- **Remove all probes, test leads, and accessories that are not necessary for the measurement.**
- **Keep fingers behind the finger guards on the probes.**
- **Replace the batteries when the low battery indicator shows to prevent incorrect measurements.**
- **Use the correct terminals, function, and range for measurements.**
- **Place test leads in proper input terminals.**
- **Use the correct terminals, function, and range for measurements.**
- **Do not work alone.**
- **Do not use in distribution systems with voltages higher than 660 V.**
- **Use only recommended test leads.**
- **Remove all power from the circuit under test and discharge circuit capacitance before testing resistance or capacitor with the tester.**
- **Results of measurement can be adversely affected by the impedances of additional operating circuits connected in parallel or by transient currents.**
- **Before and after testing, confirm that the Tester does not indicate the presence of a hazardous voltage. If a hazardous voltage is shown on the display, remove power from the circuit under test or allow the installation capacitance to fully discharge.**
- **Do not disconnect the test leads before a test has been completed and the test voltage at the terminals has returned to zero. This ensures that any charged capacitance is fully discharged.**
- **Use the guard terminal only as specified in this manual. Do not allow other foreign objects to come into contact with the guard terminals as safety may be compromised.**

- **Remove the input signals before you clean the Product.**
- **Use only specified replacement parts.**
- **Repair the Product before use if the battery leaks.**
- **Be sure that the battery polarity is correct to prevent battery leakage.**
- **Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.**
- **Have an approved technician repair the Product.**

Symbols

The table below lists the symbols that can be used on the Product or in this document.

Symbol	Description
	Consult user documentation.
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. Do not apply greater than 660 Volts.
	Battery
	Double Insulated
	Earth
CAT II	MEASUREMENT CAT II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage mains installation.
CAT III	MEASUREMENT CAT III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage mains installation.
CAT IV	MEASUREMENT CAT IV is applicable to test and measuring circuits connected at the source of the building's low-voltage mains installation.
CE	Conforms to European Union directives.
	This product complies with the WEEE Directive and its marking requirements. The affixed label indicates that you must not discard this electrical/ electronic product in domestic household waste. Do not dispose of this product as unsorted municipal waste. For information about take-back and recycling programs available in your country, see the Fluke website.

Specifications

Display ..... 73.5 mm x 104 mm
Battery ..... 8 x AA alkaline IEC LR6
Dimensions (H x W x L) ..... 184 mm x 211 mm x 93 mm
Weight ..... 1.3 kg

Temperature

Operating ..... -10 °C to +50 °C
Storage ..... -20 °C to +60 °C
Operating Humidity ..... Non condensing (<10 °C)
≤80 % RH (at 10 °C to 30 °C)
≤50 % RH (at 30 °C to 50 °C)

Altitude

Operating ..... 2000 m
Storage ..... 12 000 m

Safety

General ..... IEC 61010-1, Pollution Degree 2
Measurement ..... IEC 61010-2-030: CAT IV 600
IEC 61010-2-034: 2500 V dc

Ingress Protection (IP)
Rating ..... IEC 60529: IP40

Electromagnetic Compatibility (EMC)

International ..... IEC 61326-1: Portable Electromagnetic Environment
IEC 61326-2-2 CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself. Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Korea (KCC) ..... Class A Equipment (Industrial, Broadcasting, & Communication Equipment)

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

USA (FCC) ..... 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103