

1555/1550C Insulation Resistance Testers

FLUKE®

New



Fluke 1555

Fluke 1550C



Included accessories

Test Cables with Alligator Clips (red, black, green)
Infrared adapter with interface cable
FlukeView Forms Basic CD-ROM
AC Power Cord
Soft Carrying Case (base models only)
English Manual
Users Manual on CD-ROM
Quick Reference Card
Software License Agreement
Registration Card
FlukeView Forms Installation Guide
USB-IR Cable Installation Guide
IP67 Hard Case (kit only)
Certificate of Calibration (kit only)
Ruggedized Alligator Clips (kit and 1555 only)

Software specifications

Fluke ViewForms basic software requires a PC running Windows 2000, Windows XP and Windows Vista.

Optional Accessories

TL1550EXT 25 Foot Extended Test Lead Set

Ordering information

Fluke 1550C 5 kV Insulation Tester
Fluke 1555 10 kV Insulation Tester
Fluke 1550C/Kit 5 kV Insulation Tester Kit
Fluke 1555/Kit 10 kV Insulation Tester Kit

Digital insulation testing up to 10kV

The new 1555 and redesigned Fluke 1550C insulation resistance testers offer digital insulation testing up to 10kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables. Fluke insulation testers can now conduct the entire range of test voltages specified in IEEE 43-2000 with a best in class, 3-year warranty and CAT IV 600 V safety rating. With measurement storage and PC interface, the 1555 and 1550C are perfect tools for preventative or predictive maintenance programs designed to identify potential equipment failures before they occur.

- Test voltages up to 10 kV (1555) provides solutions for all applications
- CAT III 1000 V, CAT IV 600 V safety rating
- Voltage breakdown detection alerts the user that voltage is present and gives the voltage reading up to 600 V ac or dc for increased user safety

- Selectable test voltages in 50 V steps from 250 to 1000 V, and 100 V steps above 1000 V
- Measurements can be stored in up to 99 memory locations, with each location assigned a unique, user defined, label for easy recall
- Long battery life gives the user over 750 tests between charges
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Guard system eliminates the effect of surface leakage current on high-resistance measurements
- Large digital/analog LCD for easy viewing
- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- Resistance measurements up to 2TΩ
- Timer settings up to 99 minutes for timed tests
- 3-year warranty

Specifications

(Check the Fluke web for detailed specifications)

Test voltage (dc)	Range	Accuracy (± reading)
250 V	< 200 kΩ 200 kΩ to 5 GΩ 5 GΩ to 50 GΩ > 50 GΩ	unspecified 5 % 20 % unspecified
500 V	< 200 kΩ 200 kΩ to 10 GΩ 10 GΩ to 100 GΩ > 100 GΩ	unspecified 5 % 20 % unspecified
1000 V	< 200 kΩ 200 kΩ to 20 GΩ 20 GΩ to 200 GΩ > 200 GΩ	unspecified 5 % 20 % unspecified
2500 V	< 200 kΩ 200 kΩ to 50 GΩ 50 GΩ to 500 GΩ > 500 GΩ	unspecified 5 % 20 % unspecified
5000 V	< 200 kΩ 200 kΩ to 100 GΩ 100 GΩ to 1 TΩ > 1 TΩ	unspecified 5 % 20 % unspecified
10000 V (1555 only)	< 200 kΩ 200 kΩ to 200 GΩ 200 GΩ to 2 TΩ > 2 TΩ	unspecified 5 % 20 % unspecified

Bar Graph Range	0 to 1 TΩ & 0 to 2 TΩ (1555 only)
Insulation test voltage accuracy	-0 %, +10 % at 1 mA load current
Induced ac mains current rejection	2 mA maximum
Charging rate for capacitive load	5 seconds per μF
Discharge rate for capacitive load	1,5 s/μF

	Range	Accuracy
Leakage current measurement	1 nA to 2 mA	± (5% + 2 nA)
Capacitance measurement	0,01 μF to 15,00 μF	± (15% rdg + 0,03 μF)

Timer	Range	Resolution
	0 to 99 minutes	Setting: 1 minute Indication: 1 second

Live circuit warning	Warning range	Voltage accuracy
	30 V to 660 V ac/dc, 50/60 Hz	± (15% + 2 V)

Temperature (operating):

-20 °C to 50 °C (-4 °F to 122 °F)

Temperature (storage):

-20 °C to 65 °C (-4 °F to 149 °F)

Humidity: 80 % to 31 °C decreasing linearly to 50 % at 50 °C

Enclosure sealing: IP40

Altitude: 0 to 2000 m

Power: 12 V lead-acid rechargeable battery, Yuasa NP2.8-12

Dimensions: 170 mm x 242 mm x 330 mm

Weight: 3,6 kg (7,94 lb)

3-year warranty