

1555 and 1550C Insulation Resistance Testers



Powerful troubleshooting and predictive maintenance tools

The new Fluke 1555 and redesigned Fluke 1550C insulation resistance testers offer digital insulation testing up to 10 kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables.

- Test voltages up to 5 kV (1550C) and 10 kV (1555) provide solutions for all applications
- Warning function alerts the user that line voltage is present and gives a voltage reading up to 600 V ac or dc for increased user safety
- Measurements can be stored in up to 99 memory locations, and each location is assigned a unique, user-defined label for easy recall
- Long battery life gives the user over 750 tests between changes
- 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
- Three-year warranty

Specifications

The tester's accuracy is specified for one year after calibration at operating temperatures of 0 °C to 35 °C. For operating temperatures outside the range [-20 °C to 0 °C and 35 °C to 50 °C], add $\pm .25\%$ per °C, except on the 20 % bands add $\pm 1\%$ per °C.

Insulation resistance measurement		
Test voltage (dc)	Range	Accuracy (\pm reading)
250 V	< 200 k Ω	unspecified
	200 k Ω to 5 G Ω	5 %
	5 G Ω to 50 G Ω	20 %
	> 50 G Ω	unspecified
500 V	< 200 k Ω	unspecified
	200 k Ω to 10 G Ω	5 %
	10 G Ω to 100 G Ω	20 %
	> 100 G Ω	unspecified
1000 V	< 200 k Ω	unspecified
	200 k Ω to 20 G Ω	5 %
	20 G Ω to 200 G Ω	20 %
	> 200 G Ω	unspecified
2500 V	< 200 k Ω	unspecified
	200 k Ω to 50 G Ω	5 %
	50 G Ω to 500 G Ω	20 %
	> 500 G Ω	unspecified
5000 V	< 200 k Ω	unspecified
	200 k Ω to 100 G Ω	5 %
	100 G Ω to 1 T Ω	20 %
	> 1 T Ω	unspecified
10000 V (1555 only)	< 200 k Ω	unspecified
	200 k Ω to 200 G Ω	5 %
	200 G Ω to 2 T Ω	20 %
	> 2 T Ω	unspecified

Functions	Range	Accuracy (\pm reading)
Leakage current	1 nA to 2 mA	$\pm (5\% + 2 \text{ nA})$
Capacitance measurement	0.01 μF to 15.00 μF	$\pm (15\% \text{ rdg} + 0.03 \mu\text{F})$
Live circuit indicator	30 V to 600 V ac/dc, 50/60 Hz	$\pm (5\% + 2 \text{ V})$

Ordering information

Included accessories	Models
Test leads with alligator clips, ruggedized alligator clips (kits and 1555 only), infrared adapter with interface cable, FlukeView Forms software, ac power cord, soft carrying case, quick reference guide, users manual.	FLUKE-1550C
	FLUKE-1550C/Kit
	FLUKE-1555
	FLUKE-1555/Kit
	Fluke ir3000FC1550
	Fluke Connect ir3000 FC Connector

Fluke Connect™ accessories



ir3000 FC Connector

Connect your Fluke 1555, 1550C and 1550B Insulation Resistance Testers with the ir3000 FC Connector, and get all the benefits of the Fluke Connect™ app. Be on the same page, even while in different places. Wirelessly share measurements with your team—anywhere, anytime.

Recommended accessories



TLK1550-RTLC
Integral Test Lead
and 10 kV Clamp



FVF-Basic
FlukeView Forms Software
See page 76



IR189USB
USB-IR Cable
See page 76



CXT1555
Pelican Carrying Case

Recommended kits



1550C/Kit includes:

- 5 kV insulation resistance tester
- Ruggedized 10 kV alligator clips with integral silicone, dual extruded leads
- Test leads with large alligator clips
- IP67 hard carrying case
- USB-IR cable
- Fluke Connect ir3000 FC Connector
- NIST traceable certificate of calibration



1555/Kit includes:

- 10 kV insulation resistance tester
- Ruggedized 10 kV alligator clips with integral silicone, dual extruded leads
- Test leads with large alligator clips
- IP67 hard carrying case
- Logging software
- USB-IR cable
- Fluke Connect ir3000 FC Connector
- NIST traceable certificate of calibration

Check price and availability at
www.fluke.com/wtb