

Fluke 1555 and 1550C Insulation Resistance Testers



Fluke 1555

Fluke 1550C



Powerful troubleshooting and predictive maintenance tools.

The 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.

- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- 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, defined label for easy recall
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Three-year warranty

The tester's accuracy is specified for one year after calibration at operating temperatures of 0° C to 35° C (32° F to 95° F). For operating temperatures outside the range (-20° C to 0° C and 35° C to 50° C) (-4° F to 32° F and 95° F to 122° F), add ±.25% per ° C, except on the 20% bands add ±1% per ° C.

Insulation resistance measurement		
Test voltage (DC)	Range	Accuracy (±reading)
250 V	< 250 kΩ	unspecified
	250 kΩ to 5 GΩ	5%
	5 GΩ to 50 GΩ	20%
	> 50 GΩ	unspecified
500 V	< 500 kΩ	unspecified
	500 kΩ to 10 GΩ	5%
	10 GΩ to 100 GΩ	20%
	> 100 GΩ	unspecified
1000 V	< 1 MΩ	unspecified
	1 MΩ to 20 GΩ	5%
	20 GΩ to 200 GΩ	20%
	> 200 GΩ	unspecified
2500 V	< 2.5 MΩ	unspecified
	2.5 MΩ to 50 GΩ	5%
	50 GΩ to 500 GΩ	20%
	> 500 GΩ	unspecified
5000 V	< 5 MΩ	unspecified
	5 MΩ to 100 GΩ	5%
	100 GΩ to 1 TΩ	20%
	> 1 TΩ	unspecified
10000 V (1555 only)	< 10 MΩ	unspecified
	10 MΩ to 200 GΩ	5%
	200 GΩ to 2 TΩ	20%
	> 2 TΩ	unspecified

Functions	Range	Accuracy (±reading)
Leakage current	1 nA to 2 mA	±(5% + 2 nA)
Capacitance measurement	0.01 uF to 15.00 uF	±(15% rdg + 0.03 uF)
Live circuit warning	30 V to 600 V AC/DC, 50/60 Hz	±(15% + 2 V)

Combine the IR3000 FC Connector and Fluke Connect™, to perform advanced insulation testing for preventive and PdM tasks through:



- PI (polarity index) and DAR (dielectric absorption ratio) tests with TrendIt™ graphs to identify problems faster
- Wireless transfer of test results from the tool to Fluke Connect™ eliminates error-prone paperwork and saves your technician's time
- Temperature compensation through Fluke Connect™ App helps establish accurate baselines and relevant historical comparisons

Insulation Testers

Recommended Accessories

Fluke 1550C



TLK1550-RTL
Integral Test Lead and
10 kV Clamp



FVF-BASIC
FlukeView™ Forms
Software



CXT1555
Pelican Carrying Case



IR189USB
USB-IR Cable



IR3000FC 1550
Fluke Connect™
ir3000 Connector

Recommended Kits

Bundle & Save

Fluke 1550C 5 kV Insulation Tester Kit

Fluke 1550C FC 5 kV Insulation Tester Kit with IR 3000FC

Fluke 1555 10 kV Insulation Tester Kit

Fluke 1555 10 kV Insulation Tester Kit with IR 3000FC

Included Accessories

Test Cables with Alligator Clips (red, black, green), Infrared Adapter with Interface Cable, FlukeView™ Forms Basic CD, AC Power Cord, Soft Carrying Case, User Manual, 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), IR3000FC 1550 Connector (FC models only).

Ordering Information

- FLUKE-1550C** 5 kV Insulation Tester
- FLUKE-1550C FC** 5 kV Insulation Tester with IR 3000FC
- FLUKE-1555** 10 kV Insulation Tester
- FLUKE-1555 FC** 10 kV Insulation Tester with IR 3000FC
- FLUKE-1550C KIT** 5 kV Insulation Tester Kit
- FLUKE-1550C FC KIT** 5 kV Insulation Tester Kit with IR 3000FC
- FLUKE-1555 KIT** 10 kV Insulation Tester Kit
- FLUKE-1555 FC KIT** 10 kV Insulation Tester Kit with IR 3000FC

