

## **Insulation Resistance Tester**

### ➤ **Fluke 1550C FC 5KV Digital Insulation Tester**

The Fluke 1550C performs digital insulation testing up to 5 kV, and makes data collection easy through the Fluke Connect™ wireless app.

## 1. Fluke 1550C FC 5 kV Digital Insulation Tester



### ➤ Key Features

- Quickly configure, start and stop tests on the 1550C remotely, a safe distance away from any operating, energized equipment, using Fluke Connect® and a smart phone
- Real time trending gives you easy-to-see visual cues, rather than hard to read, rapidly changing values
- Report creation using Fluke Connect desktop saves time and makes test results easier to understand
- Fluke Connect saves test results to the cloud for analysis and preventive maintenance

### Electrical 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)

250 V	Range	< 250 k $\Omega$ , 250 k $\Omega$ to 5 G $\Omega$ 5 G $\Omega$ to 50 G $\Omega$ > 50 G $\Omega$
	Accuracy ( $\pm$ reading)	Unspecified 5% 20% Unspecified

500 V	Range	$< 500 \text{ k}\Omega$ $500 \text{ k}\Omega$ to $10 \text{ G}\Omega$ $10 \text{ G}\Omega$ to $100 \text{ G}\Omega$ $> 100 \text{ G}\Omega$
	Accuracy ( $\pm$ reading)	Unspecified 5% 20% Unspecified
1000 V	Range	$< 1 \text{ M}\Omega$ $1 \text{ M}\Omega$ to $20 \text{ G}\Omega$ $20 \text{ G}\Omega$ to $200 \text{ G}\Omega$ $> 200 \text{ G}\Omega$
	Accuracy ( $\pm$ reading)	Unspecified 5% 20% Unspecified
2500 V	Range	$< 2.5 \text{ M}\Omega$ $2.5 \text{ M}\Omega$ to $50 \text{ G}\Omega$ $50 \text{ G}\Omega$ to $500 \text{ G}\Omega$ $> 500 \text{ G}\Omega$
	Accuracy ( $\pm$ reading)	Unspecified 5% 20% Unspecified
5000 V	Range	$< 5 \text{ M}\Omega$ $5 \text{ M}\Omega$ to $100 \text{ G}\Omega$ $100 \text{ G}\Omega$ to $1 \text{ T}\Omega$ $> 1 \text{ T}\Omega$
	Accuracy ( $\pm$ reading)	Unspecified 5% 20% Unspecified

Bar graph range	0 to 1 TΩ (1550C) - 0 to 2 TΩ (1555)	
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	
Leakage current measurement	Range	1 nA to 2 mA
	Accuracy	± (5% + 2 nA)
Capacitance measurement	Range	0.01 μF to 15.00 μF
	Accuracy	± (15% rdg + 0.03 μF)
Timer	Range	0 to 99 minutes
	Resolution setting	1 minute
	Resolution indication	1 second
Live circuit warning	Warning range	30 V to 660 V AC/DC, 50/60 Hz
	Voltage accuracy	± (15% + 2 V)
Software specifications	FlukeView Forms™ basic software requires a PC running Windows XP, Windows Vista, Windows 7 or Windows 8.	

General Specifications	
Display	75 x 105 mm
Power	12 V lead-acid rechargeable battery, Yuasa NP2.8-12
Charger Input (AC)	85 V to 250 V AC 50/60 Hz 20 VA
<p>This Class II (double insulated) instrument is supplied with a Class 1 (grounded) power cord. The protective earth terminal (ground pin) is not connected internally. The extra pin is for added plug retention only.</p>	
Dimensions	269 x 277 x 160 mm (10.6 x 10.9 x 6.3 in)
Weight	3.7 kg (8.2 lb)
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
Altitude	2000 m
Enclosure sealing	IP40
Input overload protection	1000 V AC
Electromagnetic compatibility	EN 61326
Safety compliance	<p>IEC 61010-1: Overvoltage category II, Pollution Degree 2.</p> <p>IEC 61010-2-030: Measurement 600V CAT IV / 1000V</p>

	CAT III IEC 61557-1, IEC 61557-2
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