Specifications: Fluke 1550C FC 5 kV Insulation Tester Kit

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 $^{\circ}$ C. except on the 20% bands add $\pm .1\%$ per $^{\circ}$ C.

Insulation Resistance Measurement Test voltage (DC)				
	Accuracy (± 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 (± reading)	Unspecified 5% 20% Unspecified		
1000 V	Range	< 1 M Ω 1 M Ω to 20 G Ω 20 G Ω to 200 G Ω > 200 G Ω		
	Accuracy (± reading)	Unspecified 5% 20% Unspecified		

2500 V	Range	< 2.5 MΩ 2.5 MΩ to 50 GΩ 50 GΩ to 500 GΩ > 500 GΩ
	Accuracy (± reading)	Unspecified 5% 20% Unspecified
5000 V	Range	< 5 M Ω 5 M Ω to 100 G Ω 100 G Ω to 1 T Ω > 1 T Ω
	Accuracy (± 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			
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.				
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	IEC 61010-1: Overvoltage category II, Pollution Degree 2. IEC 61010-2-030: Measurement 600V CAT IV / 1000V CAT III IEC 61557-1, IEC 61557-2			