



Fluke 1555/1550C Insulation Resistance Testers

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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 ± .25 % per °C, except on the 20 % bands add ± 1 % per °C.


Insulation resistance measurement

Test voltage (dc)	Range (dc)	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 10 GΩ to 2 TΩ > 2 TΩ	unspecified 5 % 20 % unspecified
Bar graph range	0 to 1 TΩ	
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 uF to 15.00 μF	Accuracy: ± (15 % rdg + 0.03 μF)
Timer	Range: 0 to 99 minutes	Resolution Accuracy: Setting: 1 minute Indication: 1 second
Live circuit warning	Warning Range: 30 V to 660 V ac/dc.	Voltage Accuracy: ± 5 %

50/60 Hz	± (15 % + 2 V)
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General specifications	
Display	75 mm x 105 mm
Power	12 V lead-acid rechargeable battery, Yuasa NP2.8-12
Charger Input (AC)	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	170 mm x 242 mm x 330 mm (6.7 in x 9.5 in x 13 in)
Weight	3.6 kg (7.94 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
Certifications	
Safety compliance	CAT III 1000 V, CAT IV 600 V
Pollution degree	2