



Megohmmeter Model 6550

Cat. #2130.31

Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB, w/DataView® Software

Fully automated 10,000V graphical insulation tester for measuring a wide variety of electrical insulation resistance values on cables and devices operating at high voltage, using standard fixed voltages (500, 1000, 2500, 5000 and 10,000V) or three programmable step voltage profiles (from 40 to 10,000V). USB interface allows connection to a computer running DataView® for configuring the instrument, downloading test results, and generating reports.

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AC/DC Voltage Measurement	
Range	1 to 4000V
Accuracy	1 to 99.9V: $\pm(1\% R + 5\text{ct})$ 100 to 4000V: $\pm(1\% R + 1\text{ct})$
Resolution	1 to 99.9V: 0.1V 100 to 999V: 1V 1000 to 4000V: 2V
Frequency Range	1 to 2500V: DC or 15 to 500Hz 2501 to 4000V: DC
Input Impedance	3M Ω
Insulation Measurement	
Test Voltage / Resistance Range	500V: 10k Ω to 2T Ω 1000V: 10k Ω to 4T Ω 2500V: 10k Ω to 10T Ω 5000V: 10k Ω to 15T Ω 10,000V: 10k Ω to 25T Ω
Measurement Accuracy	10k Ω to 39.99G Ω : $\pm(5\% R + 3\text{ct})$ 40.0G Ω to 10.00T Ω : $\pm(15\% R + 10\text{ct})$ 400G Ω to 3.999T Ω : $\pm(15\% R + 10\text{ct})$ @ 500 and 1000V only 4.00 to 10.00T Ω : $\pm(20\% R + 10\text{ct})$ @ 2500V 4.00 to 15.00T Ω : $\pm(20\% R + 10\text{ct})$ @ 5000V 4.00 to 25.00T Ω : $\pm(20\% R + 10\text{ct})$ @ 10000V
Variable Voltage	40 to 10,000V
Auto Discharge	Discharge time < 27s/ μ F from Vtest to 25V @ 10,000V

For more details, download the datasheet or user manual at www.aemc.com

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Live Circuit Indicator	Inhibit test if terminal voltage > 25V prior to initialization of test
General Features	
Programmable Alarm	Yes
DAR – PI – DD – R(t)	Yes
Ramp Mode	Programmable start and end voltage, duration
Step Mode	Up to 10 steps (voltage and duration configurable for each step)
Capacitance Measurement	0.005 to 19.99µf
Leakage Current Measurement	0 to 8 mA
Short Circuit Current	≤5mA DC (adjustable in setup mode)
Calculation of R at Reference T°	Yes
Display	Graphic
Memory	256 registers (80,000 points)
Communication	USB optically-isolated port
Software	DataView Software (included)
Power Supply	2 x rechargeable 9.6V NiMH battery pack; external 90-260V, 50/60Hz
Battery Life	≥ 2 h at 10,000V (insulation test)
Charging Time	6 hours approximately (charging allowed during tests)
Dimensions	13.4 x 11.8 x 7.9" (340 x 300 x 200mm)
Weight	13.7 lbs (6.2kg)
Altitude Operating	6562' (2000m)
Operating Temperature	32° to +95°F (0° to +35°C) ≤75% RH
Storage Temperature	-40° to +158°F (-40° to +70°C) ≤90% RH
IP Rating	IP 65
Safety Compliance	IEC 61010-1, IEC 61557, 1000V CAT IV, Pollution Degree 2



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