



## Megohmmeter Model 6550

**Cat. #2130.31**

**Graphical, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000, 10,000) V, Ramp, StepV, Variable, Auto DAR/PI/DD, USB, w/DataView® Software**

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

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

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<b>Live Circuit Indicator</b>	Inhibit test if terminal voltage > 25 V prior to initialization of test
<b>General Features</b>	
<b>Programmable Alarm</b>	Yes
<b>DAR – PI – DD – R(t)</b>	Yes
<b>Ramp Mode</b>	Programmable start and end voltage, duration
<b>Step Mode</b>	Up to 10 steps (voltage and duration configurable for each step)
<b>Capacitance Measurement</b>	(0.005 to 19.99) $\mu$ f
<b>Leakage Current Measurement</b>	(0 to 8) mA
<b>Short Circuit Current</b>	$\leq$ 5 mA DC (adjustable in setup mode)
<b>Calculation of R at Reference T°</b>	Yes
<b>Display</b>	Graphic
<b>Memory</b>	256 registers (80,000 points)
<b>Communication</b>	USB optically-isolated port
<b>Software</b>	DataView Software (included)
<b>Power Supply</b>	2 x rechargeable 9.6 V NiMH battery pack; external (90 to 260 )V, (50 600 Hz
<b>Battery Life</b>	$\geq$ 2 h at 10,000 V (insulation test)
<b>Charging Time</b>	6 hours approximately (charging allowed during tests)
<b>Dimensions</b>	(13.4 x 11.8 x 7.9) in (340 x 300 x 200) mm
<b>Weight</b>	13.7 lbs (6.2 kg)
<b>Altitude Operating</b>	6562 ft (2000 m)
<b>Operating Temperature</b>	(32 to 95) °F (0 to +35) °C $\leq$ 75 % RH
<b>Storage Temperature</b>	(-40 to 158) °F (-40 to +70) °C $\leq$ 90 % RH
<b>IP Rating</b>	IP 65
<b>Safety Compliance</b>	IEC/EN 61010-2-034 or BS EN 61010-2-034, IEC-61557 parts 1 and 2 (up to 10 kV), 1000 V CAT IV, Pollution Degree 2



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