

### MODELS 6550

Expert tools for testing insulation safely and accurately; ideal for use on rotating machinery and cables operating at higher voltages



## FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40V to 10kV
- Wide measurement range from 10kΩ to 25TΩ
- 5mA short circuit current
- Step voltage testing
- Ramp voltage testing
- Automatic calculation of DAR / PI / DD /ΔR (ppm/V) ratios
- Large, backlit graphical LCD screen with digital display, bargraph and R(t)+V(t), I(t) and I(V) graphs
- Multiple test modes: voltage ramp and step with "Burn-In", "Early-Break" and "I-Limit" modes
- Three filter settings to optimize measurement stability
- Calculation of R at a reference temperature
- Storage of 80,000 measurements
- Includes DataView® software for data retrieval, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView® software

## SPECIFICATIONS

MODELS	6550	
<b>INSULATION TESTS</b>		
Test Voltage	500V 1000V 2500V 5000V 10,000V	10kΩ to 2000GΩ (2TΩ) 10kΩ to 4000GΩ (4TΩ) 10kΩ to 10,000GΩ (10TΩ) 10kΩ to 15,000GΩ (15TΩ) 10kΩ to 25,000GΩ (25TΩ)
Fixed Test Voltages	500/1000/2500/5000/ 10,000V	
Variable Voltages	Variable: 40 to 10kV Three user programmable voltage schemes	
Ramp Mode	Programmable ramps: start voltage/end voltage/duration	
Ramp Configuration Range	40 to 1100V/500 to 10,000V	
Step Mode	Up to 10 steps (voltage and duration configurable for each step)	
Voltage Test/Safety Test	0 to 2500V <sub>ac</sub> ; 0 to 4000V <sub>bc</sub>	
Capacitance Measurement	0.005 to 9.999μF/10.00 to 49.99μF	
Leakage Current Measurement	0 to 8mA	
Discharge After Test	Yes/Automatic	
Additional Test Stop Modes		
I-Limit	Programmable: 0.2 to 5mA	
Early-Break	di/dt	
Timer	Up to 99 minutes 59 seconds	
Burn Mode	Constant testing	
Ratio Calculation	PI, DAR, DD	
Calculation of R at ref. T°	Yes	
Measurement Display Filter	3 filters with 3 possible time-constants	
Graphs on Display	R(t)+V(t); I(t); I(V)	
Storage	256 registers, stores 80,000 points: R, V, I and date	
Communication	USB optically-isolated port	
PC Software	DataView®	
Power Supply	NiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60Hz	
Battery Charging	Battery charging allowed while performing insulation measurements	
Dimensions / Weight	13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 13.7lbs (6.2kg)	
EMC, Mechanical Protection, Altitude	EN 61326-1, IP54, 2000m	
Electrical Safety	1000V CAT IV; IEC61010-1 and IEC 61557	

## PRODUCT INCLUDES

Small classic tool bag, set of color-coded (red/blue/black) 9ft (15kV) integral leads and alligator clips (1000V CAT IV), one 15kV jumper lead (blue), set of two color-coded test probes (red/black-1000V CAT IV), optical USB cable, 115V US power cord, 9.6V rechargeable NiMH batteries.



### USB DRIVE

USB drive supplied with DataView® software and user manual.



### CATALOG NO.

### DESCRIPTION

2130.31

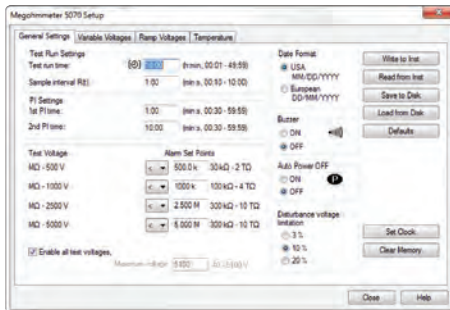
Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, Ramp, StepV, Variable, Auto DAR/PI/DD, DataView® software)

## CONFIGURE ALL FUNCTIONS OF THE MEGOHMMETER MODELS 1060, 5060, 5070, 6526, 6532, 6534, 6550 & 6555

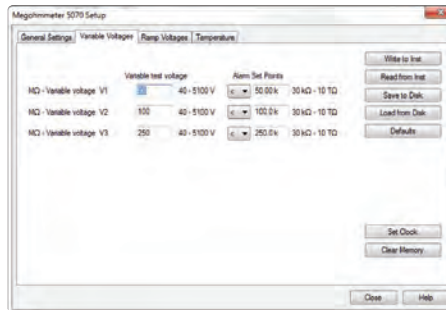


- Print reports of all test results
- Select test voltage and run tests from your computer with a simple click and execute process
- Capture and display data in real-time
- Retrieve data from the instrument's memory for:
  - Over 1500 insulation resistance measurements
  - Over 4000 resistance measurements
- Display DAR and PI ratios
- Plot graphs of manual and timed tests
- Include your analysis comments section with the report
- Store a library of setups for different applications
- Certification of results through report generation
- Free updates are available on our website [www.aemc.com](http://www.aemc.com)

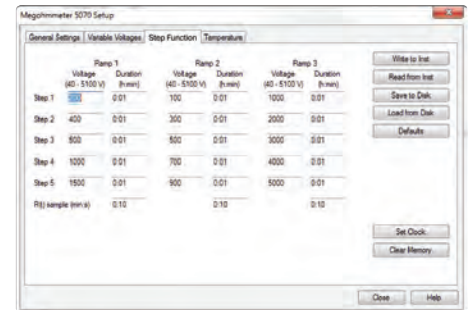
## TYPICAL DATAVIEW® FUNCTIONAL DISPLAYS



Four tabbed dialog boxes allow for clear and easy setup of all functions of the Model 5070, including setup for variable voltage and alarm set points, as well as step voltage tests and temperature compensation.

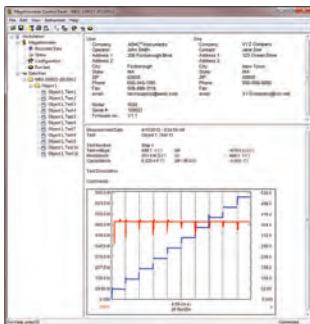


Variable Voltage selections from 40 to 5100V and can also be programmed along with alarm set points.

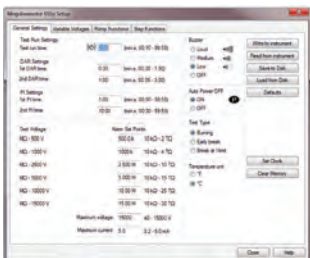


Model 5070 includes Step Function which allows programming of three different ramp test profiles, each containing up to five voltage steps between 40 and 5100V and time per step of up to 10 hours.

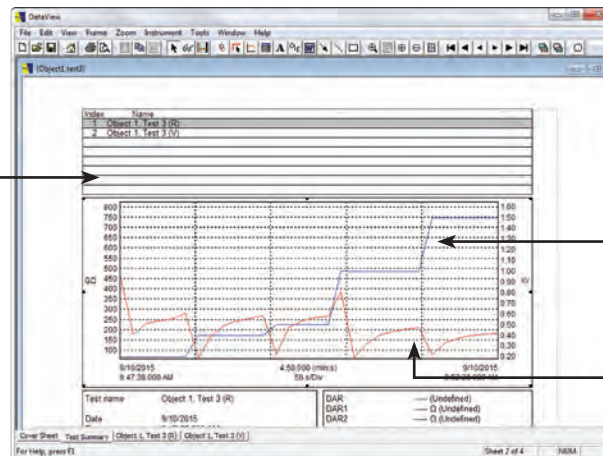
## DISPLAYS



All stored test results presented on screen.



Clear and straightforward set up of parameters.



Run test and display text and graphical results from one dialog box. Model 5070 also displays step voltage.

# MEGOHMMETERS

## SELECTION CHART

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	TEST VOLTAGE	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE DETECTION	POWER SOURCE	DISPLAY	DATAVIEW SOFTWARE
6501	2126.51	500V	0.5 to 200M $\Omega$	0 to 500k $\Omega$	0 to 100 $\Omega$	—	0 to 600Vac	Hand-cranked	Analog	No
6503	2126.52	250V 500V 1000V	1 to 500M $\Omega$ 1 to 500M $\Omega$ 10 to 5000M $\Omega$	—	—	—	0 to 600Vac	Hand-cranked	Analog	No
6527	2126.53	250V 500V 1000V	1k $\Omega$ to 4G $\Omega$ 1k $\Omega$ to 4G $\Omega$ 1k $\Omega$ to 4G $\Omega$	0.0 to 400.0k $\Omega$	0.00 to 400 $\Omega$	—	0 to 600Vac 0 to 1000Vdc	6 x AA Alkaline Batteries	Digital/ Analog	No
1026	2117.72	250V 500V 1000V	1k $\Omega$ to 4G $\Omega$	4k $\Omega$	0 to 40 $\Omega$	—	0 to 600Vac/dc	8 x AA Alkaline Batteries	Digital/ Analog	No
6522	2155.51	250V 500V 1000V	50k $\Omega$ to 40G $\Omega$	—	10 $\Omega$	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6524	2155.52	50V 100V 250V 500V 1000V	10k $\Omega$ to 200G $\Omega$	1000k $\Omega$	10 $\Omega$ , 100 $\Omega$	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6526	2155.53	50V 100V 250V 500V 1000V	10k $\Omega$ to 200G $\Omega$	1000k $\Omega$	10 $\Omega$ , 100 $\Omega$	0.1n to 10 $\mu$ F	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6532	2155.54	50V 100V	10k $\Omega$ to 20G $\Omega$	1000k $\Omega$	10 $\Omega$ , 100 $\Omega$	0.1n to 10 $\mu$ F	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6534	2155.55	10V 25V 100V 250V 500V	2k $\Omega$ to 50G $\Omega$	1000k $\Omega$	10 $\Omega$ , 100 $\Omega$	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10V 100V	2k $\Omega$ to 20G $\Omega$	1000k $\Omega$	10 $\Omega$ , 100 $\Omega$	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57									
1050	2130.01	50V 100V 250V 500V 1000V	2k $\Omega$ to 200G $\Omega$ 4k $\Omega$ to 400G $\Omega$ 10k $\Omega$ to 1T $\Omega$ 20k $\Omega$ to 2T $\Omega$ 40k $\Omega$ to 4T $\Omega$	0.01 to 400k $\Omega$	0.01 to 39.99 $\Omega$	0.005 to 4.999 $\mu$ F	0 to 1000Vac/dc	8 x 1.5V C Cell Batteries	Digital/ Analog	No
1060	2130.03	50V 100V 250V 500V 1000V	2k $\Omega$ to 200G $\Omega$ 4k $\Omega$ to 400G $\Omega$ 10k $\Omega$ to 1T $\Omega$ 20k $\Omega$ to 2T $\Omega$ 40k $\Omega$ to 4T $\Omega$	0.01 to 400k $\Omega$	0.01 to 39.99 $\Omega$	0.005 to 4.999 $\mu$ F	0 to 1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6505	2130.18	500V 1000V 2500V 5000V	30k $\Omega$ to 2000G $\Omega$ 100k $\Omega$ to 4000G $\Omega$ 100k $\Omega$ to 10,000G $\Omega$ 300k $\Omega$ to 10,000G $\Omega$	—	—	0.005 to 49.99 $\mu$ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5050	2130.20	500V 1000V 2500V 5000V	30k $\Omega$ to 2T $\Omega$ 100k $\Omega$ to 4T $\Omega$ 100k $\Omega$ to 10T $\Omega$ 300k $\Omega$ to 10T $\Omega$	—	—	0 to 49.99 $\mu$ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5060	2130.21	500V 1000V 2500V 5000V	30k $\Omega$ to 2T $\Omega$ 100k $\Omega$ to 4T $\Omega$ 100k $\Omega$ to 10T $\Omega$ 300k $\Omega$ to 10T $\Omega$	—	—	0 to 49.99 $\mu$ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
5070	2130.30	500V 1000V 2500V 5000V	30k $\Omega$ to 2T $\Omega$ 100k $\Omega$ to 4T $\Omega$ 100k $\Omega$ to 10T $\Omega$ 300k $\Omega$ to 10T $\Omega$	—	—	0 to 49.99 $\mu$ F	2500Vac 4000Vdc	Rechargeable NiMH Battery	Graphic/ Digital	Yes
6550	2130.31	500V 1000V 2500V 5000V 10,000V	10k $\Omega$ to 2000G $\Omega$ 10k $\Omega$ to 4000G $\Omega$ 10k $\Omega$ to 10,000G $\Omega$ 10k $\Omega$ to 15,000G $\Omega$ 10k $\Omega$ to 25,000G $\Omega$	—	—	0.001 to 9.999 $\mu$ F 10.00 to 19.99 $\mu$ F	0 to 2500Vac 0 to 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6555	2130.32	500V 1000V 2500V 5000V 10,000V 15,000V	10k $\Omega$ to 2000G $\Omega$ 10k $\Omega$ to 4000G $\Omega$ 10k $\Omega$ to 10,000G $\Omega$ 10k $\Omega$ to 15,000G $\Omega$ 10k $\Omega$ to 25,000G $\Omega$ 10k $\Omega$ to 30,000G $\Omega$	—	—	0.001 to 9.999 $\mu$ F 10.00 to 19.99 $\mu$ F	0 to 2500Vac 0 to 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes