

# MEGOHMMETERS

## 10,000 & 15,000V Digital

### Models 6550 & 6555

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



#### SPECIFICATIONS



MODELS	6550	6555
<b>INSULATION TESTS</b>		
<b>Test Voltage</b>	500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ (2TΩ) 10kΩ to 4000GΩ (4TΩ) 10kΩ to 10,000GΩ (10TΩ) 10kΩ to 15,000GΩ (15TΩ) 10kΩ to 25,000GΩ (25TΩ)
<b>Fixed Test Voltages</b>	500/1000/2500/5000/ 10,000V	500/1000/2500/5000/ 10,000/15,000V
<b>Variable Voltages</b>	Variable: 40 to 10kV Three user programmable voltage schemes	Variable: 40 to 15kV Three user programmable voltage schemes
<b>Ramp Mode</b>	Programmable ramps: start voltage/end voltage/duration	
<b>Ramp Configuration Range</b>	40 to 1100V/500 to 10,000V	40 to 1100V/500 to 15,000V
<b>Step Mode</b>	Up to 10 steps (voltage and duration configurable for each step)	
<b>Voltage Test/Safety Test</b>	0 to 2500V <sub>AC</sub> ; 0 to 4000V <sub>DC</sub>	
<b>Capacitance Measurement</b>	0.005 to 9.999μF/10.00 to 49.99μF	
<b>Leakage Current Measurement</b>	0 to 8mA	
<b>Discharge After Test</b>	Yes/Automatic	
<b>Additional Test Stop Modes</b>		
I-Limit	Programmable: 0.2 to 5mA	
Early-Break	di/dt	
Timer	Up to 99 minutes 59 seconds	
<b>Burn Mode</b>	Constant testing	
<b>Ratio Calculation</b>	PI, DAR, DD	
<b>Calculation of R at ref. T°</b>	Yes	
<b>Measurement Display Filter</b>	3 filters with 3 possible time-constants	
<b>Graphs on Display</b>	R(t)+V(t); I(t); I(V)	
<b>Storage</b>	256 registers, stores 80,000 points: R, V, I and date	
<b>Communication</b>	USB optically-isolated port	
<b>PC Software</b>	DataView®	
<b>Power Supply</b>	NiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60Hz	
<b>Battery Charging</b>	Battery charging allowed while performing insulation measurements	
<b>Dimensions / Weight</b>	13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 13.7lbs (6.2kg)	
<b>EMC, Mechanical Protection, Altitude</b>	EN 61326-1, IP54, 2000m	
<b>Electrical Safety</b>	1000V CAT IV; IEC61010-1 and IEC 61557	

#### FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40V to 10kV/15kV
- Wide measurement range from 10kΩ to 30TΩ
- 5mA charging 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 storage, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView® software

#### PRODUCT INCLUDES

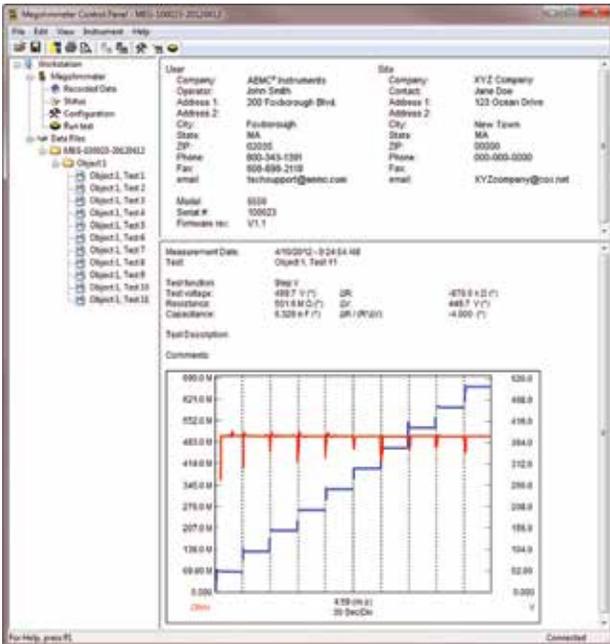
Small classic tool bag, set of color-coded (red/blue/black) 9ft (15kV) integral leads and alligator clips (1000V CAT IV), one 15kV jumper lead (blue), set of two color-coded test probes (red/black-1000V CAT IV), optical USB cable, 115V US power cord, 9.6V rechargeable NiMH batteries.



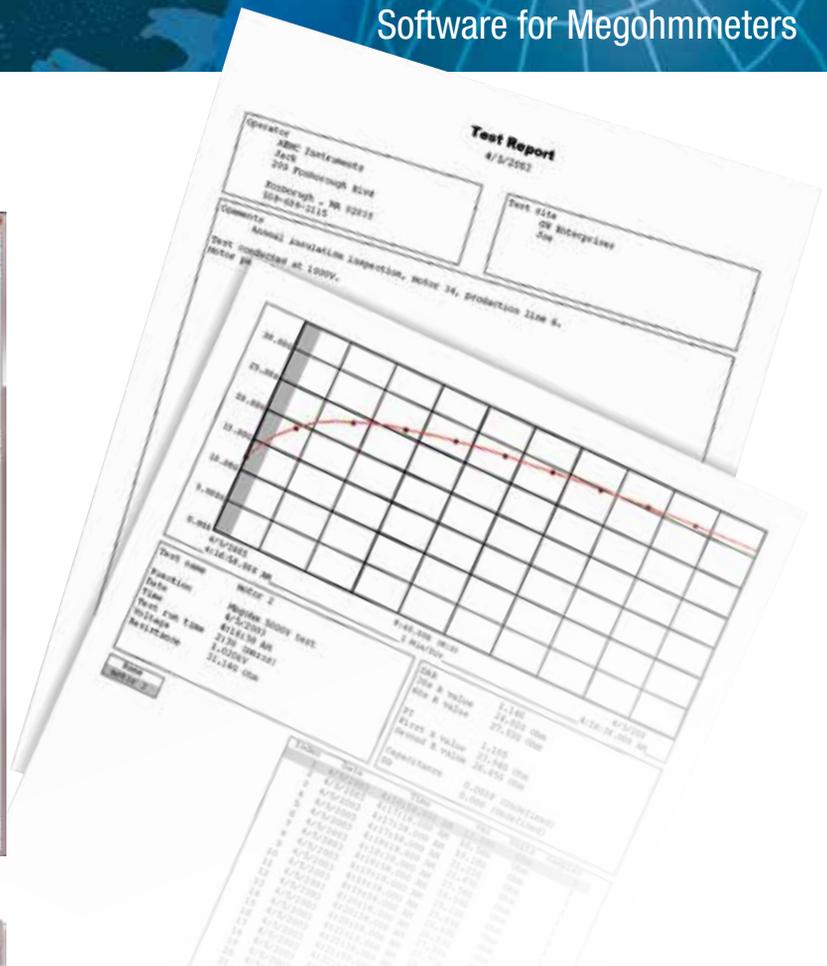
#### USB Drive

Quick start user guide, and USB drive supplied with DataView® software and user manual.

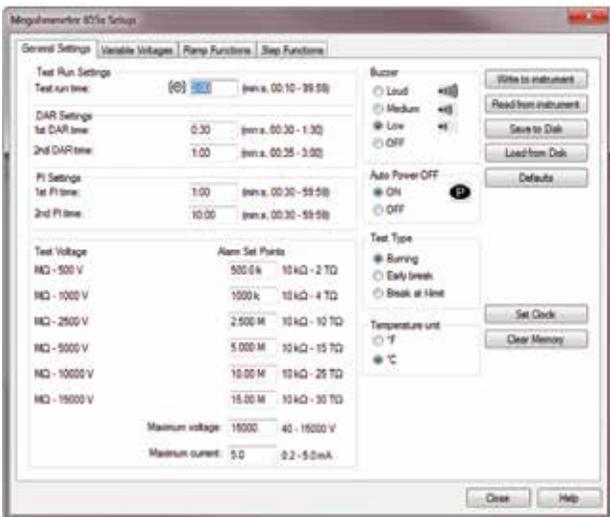
# DataView® Displays



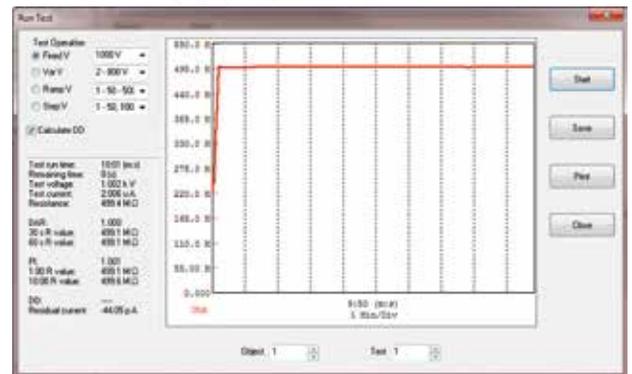
All stored test results presented on screen.



Standard and customized reports generated from DataView® software.



Clear and straightforward set up of parameters.



Real-time display of measurement results.

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, USB Stick w/DataView® software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, 10kV, 15kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB Stick w/DataView® software)
<b>Accessories (optional)</b>	
2151.18	Lead – One Shielded Safety Lead (black) 25 ft w/Hippo Clips (15kV)
2151.19	Lead – One Shielded Safety Lead (blue) 25 ft w/Hippo Clips (15kV)
2151.20	Lead – One Shielded Safety Lead (red) 25 ft w/Hippo Clips (15kV)
2151.21	Lead – One Shielded Safety Lead (black) 45 ft w/Hippo Clips (15kV)
2151.22	Lead – One Shielded Safety Lead (blue) 45 ft w/Hippo Clips (15kV)
2151.23	Lead – One Shielded Safety Lead (red) 45 ft w/Hippo Clips (15kV)

# DataView®

## Data Analysis and Reporting 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)

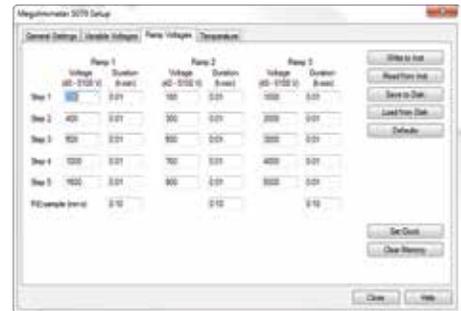
### Typical DataView® Functional Displays



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.

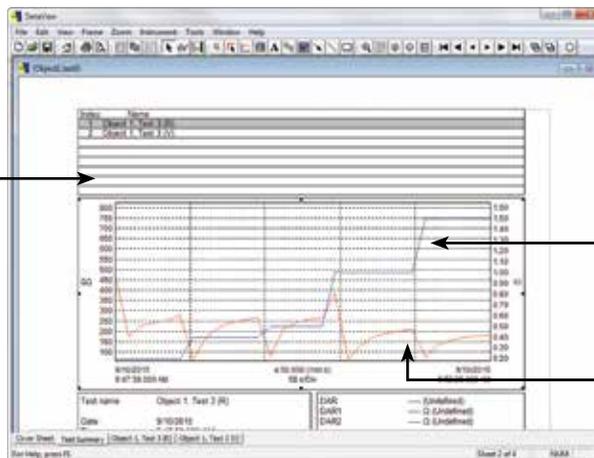


Variable Voltage selections from 40 to 5100V and can also be programmed along with alarm set points.



Model 5070 includes Ramp 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.

Test result status box displays complete test results in real-time



Step voltage during the test run

Insulation resistance with temperature compensation

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

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