

MEGOHMMETERS

10,000 V/ 15,000 V DIGITAL



MODELS 6550 & 6555

Ideal for use on rotating machinery, transformers and cables operating at higher voltages.



FEATURES

- High-voltage diagnostic Megohmmeters designed for insulation testing and condition assessment of large motors, generators, power transformers, switchgear, and high-voltage cable systems in industrial and utility environments
- Rugged hard-case platform with large, high-resolution digital display and analog bargraph supports clear interpretation of insulation behavior during long-duration and high-stress tests
- Advanced diagnostic test capabilities including step voltage, ramp voltage, PI, DAR, capacitance, and Dielectric Discharge (DD) enable detailed evaluation of insulation integrity, moisture ingress, and aging mechanisms
- Test sensitive insulation and components at high voltages with current limiting functions
- Internal memory and DataView® software compatibility support result storage, trending, and professional reporting to aid predictive maintenance and asset management programs
- Designed with integrated safety protections, including CAT III measurement category ratings, automatic test inhibition on live circuits, post test discharge, internal fuse protection, and robust safety leads to help safeguard the operator during high-energy testing

PRODUCT INCLUDES

CAT. #2130.31 MEGOHMMETER MODEL 6550

CAT. #2130.32 MEGOHMMETER MODEL 6555

Small classic tool bag, set of (3) 10 ft color-coded (red/blue/black) safety leads with clips, (1) jumper lead (blue), optical USB cable, power cord, rechargeable NiMH batteries, and a USB drive with DataView® software and user manual.

MODELS	6550	6555
INSULATION RESISTANCE TESTING FUNCTIONS		
Maximum Test Voltage	10,000 V	15,000 V
Test Voltage Options	Fixed - (500, 1000, 2500, 5000, 10,000) V / 10 V increments (40 to 1000) V 100 V increments (1000 to 10,000) V	Fixed - (500, 1000, 2500, 5000, 10,000, 15,000) V / 10 V increments (40 to 1000) V 100 V increments (1000 to 15,000) V
Maximum Resistance Measurement ⁽¹⁾	25 TΩ	29 TΩ
Typical Accuracy	± 5 %	
Timer	Yes	
PI / DAR	Yes	
Dielectric Discharge (DD)	Yes	
Post Test Capacitance Measurement	Yes	
Alarms	Yes	
Step Voltage	Yes	
Ramp Voltage	Yes	
Guard Lead	Yes	
Remote Probe Compatible	N/A	
ELECTRICAL - MULTIMETER FUNCTIONS		
Resistance	N/A	
Continuity	N/A	
Lead Compensation	Yes	
DATA STORAGE & REPORTING		
Data Storage and DataView® Reporting	Yes	
Data Connection	Optical USB	
GENERAL		
Display	Backlit graphical display	
Power Source	Ni-MH rechargeable battery and line power	
SAFETY & ENVIRONMENT		
CAT Rating	1000 V CAT IV	
IP Rating (Closed lid)	IP54	
RECOMMENDED USES		
Cable Terminations and Splices	Yes	
Bus Insulation	Yes	
Control Wiring	Yes	
Medium Voltage Cables	Yes	
Low Voltage Motors	Yes	
Medium Voltage Large Motors	Yes	
Instrument Transformers	Yes	
Medium Voltage Dry and Liquid Transformers	Yes	

Consult factory for NIST Calibration prices.

⁽¹⁾ Specific to test voltage

CAT. #	DESCRIPTION
2130.31	Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, 10 kV, Ramp, Step V, Variable, Auto DAR/PI/DD, USB, with DataView® Software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, (500, 1000, 2500, 5000) V, (10, 15) kV, Ramp, Step V, Variable, Auto DAR/PI/DD, DataView® software)



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Technical Assistance (800) 343-1391

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	1017.45	Adapter – 4 mm Non-Insulated For Safety Leads							•							
	2117.73	Pouch – Replacement Dimensions: (7 × 8.5 × 2) in		•												
	2118.09	General Carrying Case Dimensions: (13 × 9.5 × 3) in		•	•	•	•	•	•							
	2119.02	Soft Carrying Pouch Dimensions: (7.75 × 9.25 × 2.75) in			•	•	•	•								
	2119.45	Cable – Replacement PC RS-232, DB9 F/F 6 ft Null Modem <i>(for units w/o USB port purchased before July 1, 2022)</i>								•			•	•		
	2119.56	Fuse, Set of (3), 0.1 A, 660 V, 20 kA, (6 × 32) mm								•					•	•
	2119.57	Fuse – One, 2.5 A, 1200 V, (8 × 50) mm								•						
	2119.59	Pouch – Replacement Dimensions: (8 × 10 × 2) in								•						
	2119.78	Lead – Replacement 1 ft Jumper Lead (5 kv)									•	•	•	•		
	2119.84	Fuse – Set of (3) 0.1 A, 380 V, (5 × 20) mm, 10 kA									•	•	•	•		
	2126.71	Case – Replacement Carrying Case Dimensions: (10.5 × 6.5 × 6) in	•													
	2133.72	Small Classic Tool Bag for field use – 12 Exterior and 14 Interior pockets Dimensions: (13.0 × 9.8 × 9.5) in													•	•
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 × 9 × 12) in									•	•	•	•		
	2133.76	Bag – Extra Large Carrying Bag w/ Rubber Bottom; Dimensions: (22.5 × 12.5 × 7.5) in									•	•	•	•		

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	2135.41	Optical USB Cable													•	•
	2135.43	Inverter – 12 Vdc to 120 Vac 200 Watt for Vehicle Use								•	•	•	•	•	•	•
	2136.80	Cable – 10 ft USB Type-A to Type-B											•	•		
	2138.54	Continuity Probe			•	•	•	•	•							
	2139.74	Lead – Set of (2), 6.5 ft color-coded red/black Fused Leads (.63 A) w/ 4 mm Plug		•	•	•	•	•	•							
	2140.19	9.6 V NiMH (color may vary)													•	•
	2151.30	Lead – Replacement Set of (3), 10 ft 5 kV w/ Integral clips									•	•	•	•		
	2151.31	Lead – Replacement 1 ft 5 kV Blue Jumper Lead									•	•	•	•		
	2151.32	Lead – Set of (3), 25 ft 5 kV Safety w/ Integral Clips									•	•	•	•		
	2151.33	Lead – Set of (3), 45 ft 5 kV Safety w/ Clips									•	•	•	•		
	2151.36	Lead – Replacement Set of (3), 10 ft 15 kV w/ Integral Clips													•	•
	2151.37	Lead – Replacement 1.5 ft 15 kV Blue Jumper													•	•
	2151.38	Lead – Set of (3), 25 ft 15 kV w/ Integral Clips													•	•
	2151.39	Lead – (1) 45 ft 15 kV Blue Guard w/ Integral Clips													•	•
	2151.40	Lead – (1) 45 ft 15 kV Red w/ Integral Clip													•	•

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	2151.41	Lead – (1) 45 ft 15 kV Black w/ Integral Clip													•	•
	2152.26	Probe – Set of (2), color-coded Grip Probes (red/black) 1000 V CAT III 20 A	•	•	•	•	•	•	•	•						
	2152.28	Lead – Set of (2), 6.5 ft Color-coded (red/black) Fused Leads (0.63 A); Two Screw-on Alligator Clips, Two Screw-on Test Probes, Set of (5), 0.63 A Fuses (UL)		•	•	•	•	•	•							
	2155.75	Megohmmeter Test Probe (600 V CAT IV)				•	•	•	•	•						
	2155.76	Weights – Set of (2) (5 lb each) with conductive rubber bottom pad (RoHS) for use with Model 6536 ESD Kit							•							
	2155.77	Case – Field Case			•	•	•	•	•							
	2951.70	Lead – Set of (3), Color-coded 10 ft safety leads							•							
	2960.21	Replacement 9.6 V Rechargeable Battery Pack								•	•	•	•	•		
	2970.97	Fuse – Set of (5), 0.5 A, 1000 V, HPC, (6x32) mm		•												
	2971.04	Fuse - Set of (2), FF, 200 mA, 1000 V, 10 kA, (6 x 32) mm			•											
	5000.14	Power cord 115 V								•	•	•	•	•	•	•
	5000.30	Probe – Black Test Probe {Rated 1000 V CAT IV, 15 A, UL}	•	•						•						
	5000.32	Power Cord 220 V								•	•	•	•	•	•	•
	5000.56	Fuse – (1) 500 mA, 3 kV, (8 x 85) mm									•	•	•	•		
	5000.60	Adapter – RS-232 to USB 2.0 Replacement								•			•	•		

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	5000.66	Megohmmeter Calibration Checker – Provides (2) test resistances of 150 kΩ and 100 MΩ	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5000.78	Lead – Set of (2), 5 ft PVC color-coded (red/black) with 4 mm straight/right Banana Plugs	•							•						
	5000.93	Lead – Set of (3), 5 ft PVC color-coded (red/black/blue) with 4 mm straight/right Banana Plugs	•							•						
	5000.94	Lead – Set of (2), 5 ft silicone color-coded (red/black) with 4 mm straight/right Banana Plugs (Rated 1000 V, CAT IV, UL)		•	•	•	•	•	•							
	5000.95	Lead – Replacement Black 5 ft Shielded Lead								•						
	5000.97	Probe – Black Test Probe (Rated 1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•							
	5000.98	Probe – Red Test Probe (Rated 1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•							
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•	•						
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•	•						
	5100.02	Latches – Replacement set of (2) for use with AEMC® Yellow cases								•	•	•	•	•	•	•
	5100.04	Clip – Safety Alligator – Blue (1000 V CAT IV, 15 A, UL V2)	•	•	•	•	•	•	•	•	•					
	5100.07	Lead – set of (2), 5 ft color-coded (red/black) PVC w/ 4 mm ST/ST plugs	•	•	•	•	•	•	•	•	•					

MEGOHMMETERS

SELECTION CHART

AEMC® MODEL NUMBER	CAT. #	TEST VOLTAGE	INSULATION RANGE	RESISTANCE RANGE	CONTINUITY RANGE	CAPACITANCE RANGE	VOLTAGE DETECTION	POWER SOURCE	DISPLAY	DATAVIEW® SOFTWARE
6503	2126.52	250 V 500 V 1000 V	(1 to 500) MΩ (1 to 500) MΩ (10 to 5000) MΩ	—			600 V _{AC}	Hand-cranked	Analog	No
6522	2155.51	250 V 500 V 1000 V	50 kΩ to 10 GΩ 100 kΩ to 20 GΩ 200 kΩ to 40 GΩ	—	10 Ω	—	700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital / Analog	No
6527	2126.53	250 V 500 V 1000 V	1 kΩ to 4 GΩ	400 kΩ	400 Ω	—	600 V _{AC} 1000 V _{DC}	(6) AA Alkaline Batteries	Digital / Analog	No
6529	2126.55	50 V 100 V 250 V 500 V 1000 V	(0.010 to 420) MΩ (0.020 to 420) MΩ (0.050 to 420) MΩ (0.100 to 4200) MΩ 0.20 MΩ to 11 GΩ	(0 to 420) kΩ	(0 to 40) Ω (200 mA test current ≤ 2 Ω)	—	700 V _{AC} 700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital	No
6526	2155.53	50 V 100 V 250 V 500 V 1000 V	10 kΩ to 10 GΩ 20 kΩ to 20 GΩ 50 kΩ to 50 GΩ 100 kΩ to 100 GΩ 200 kΩ to 200 GΩ	1000 kΩ	(10, 100) Ω	0.1 n to 10 μF	700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital / Analog	Yes
6534	2155.55	10 V 25 V 100 V 250 V 500 V	2 kΩ to 1 GΩ 5 kΩ to 2 GΩ 10 kΩ to 10 GΩ 50 kΩ to 25 GΩ 100 kΩ to 50 GΩ	1000 kΩ	(10, 100) Ω	—	700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital / Analog	Yes
6536	2155.56	10 V 100 V	2 kΩ to 20 GΩ	1000 kΩ	(10, 100) Ω	—	700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital / Analog	No
6536 ESD Floor Kit	2155.57	(variable in 1 V steps)								
1060	2130.03	50 V 100 V 250 V 500 V 1000 V	2 kΩ to 200 GΩ 4 kΩ to 400 GΩ 10 kΩ to 1 TΩ 20 kΩ to 2 TΩ 40 kΩ to 4 TΩ	400 kΩ	40 Ω	(0.005 to 4.999) μF	1000 V _{AC/DC}	Rechargeable NiMH Battery	Digital / Analog	Yes
6505	2130.18	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	—		(0.001 to 49.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Digital / Analog	No
5050	2130.20	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	—		(0.001 to 49.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Digital / Analog	No
5060	2130.21	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	—		(0.001 to 49.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Graphical / Analog	Yes
5070	2130.30	500 V 1000 V 2500 V 5000 V	10 kΩ to 2 TΩ 10 kΩ to 4 TΩ 10 kΩ to 10 TΩ 10 kΩ to 10 TΩ	—		(0.005 to 49.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Graphical / Analog	Yes
6550	2130.31	500 V 1000 V 2500 V 5000 V 10,000 V	10 kΩ to (2, 4, 10, 15, 25) TΩ	—		(0.001 to 19.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Graphical / Analog	Yes
6555	2130.32	500 V 1000 V 2500 V 5000 V 10,000 V 15,000 V	10 kΩ to (2, 4, 10, 15, 25, 29) TΩ	—		(0.001 to 19.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Graphical / Analog	Yes

Consult factory for NIST Calibration prices.

DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

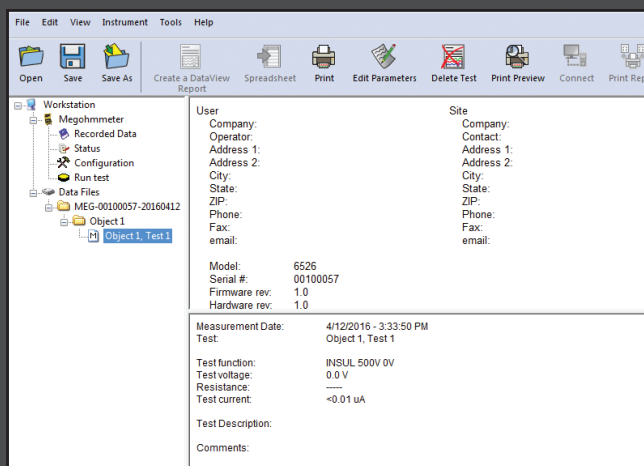
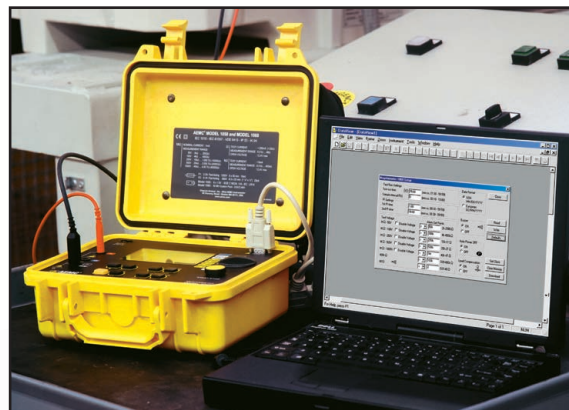
Configure All Functions of Models

1060, 5060, 5070, 6526, 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:
 - Over 1500 insulation resistance measurements (*Model dependent*)
 - Storage of 80,000 measurements (*Model dependent*)
- Display DAR and PI ratios
- Plot graphs of manual and timed tests
- Include your analysis comments section with the report
- Store a library of set ups for different applications
- Certification of results through report generation
- Free updates are available on our website www.aemc.com



DataView® software, user manual and quick start guide are included in the USB Drive

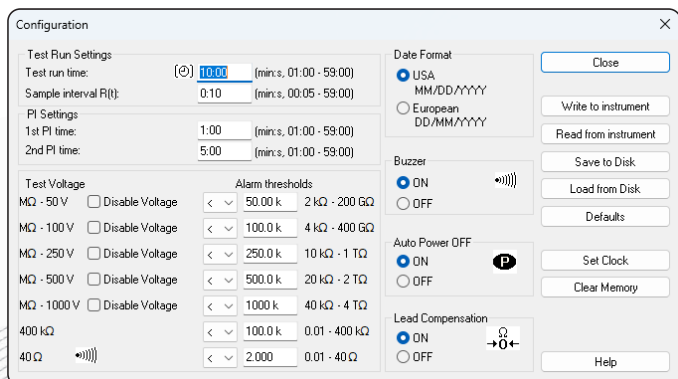


Tree structured status screen provides the ability to select connected instruments, configure instruments, see the instrument's status and review stored test results.

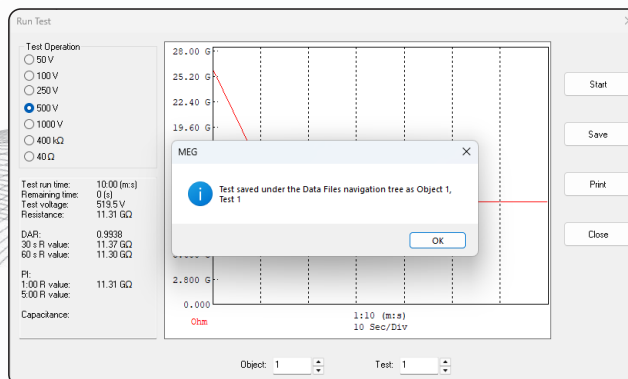
DataView® Software automatically recognizes the instrument when it is connected to the PC allowing communication through the corresponding control panel. The tree structure menu offers direct access to the data recorded in the instrument and its configuration.

Other Functions Available:

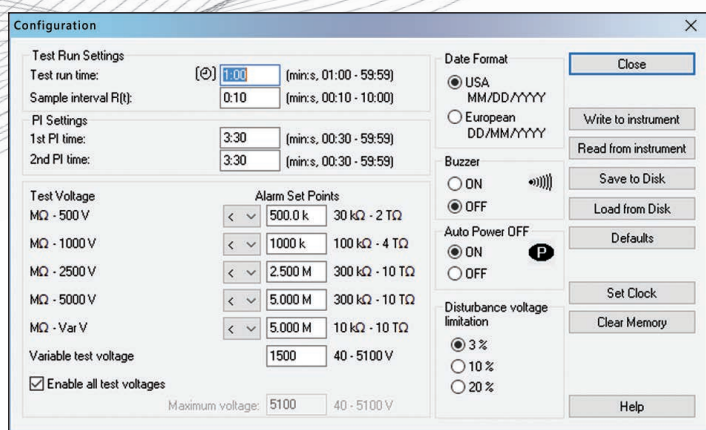
- Start and stop tests from your PC
- Real-time display of active tests
- DAR and PI ratio programming and display
- Graphical plot of the tests
- Generate reports from test results



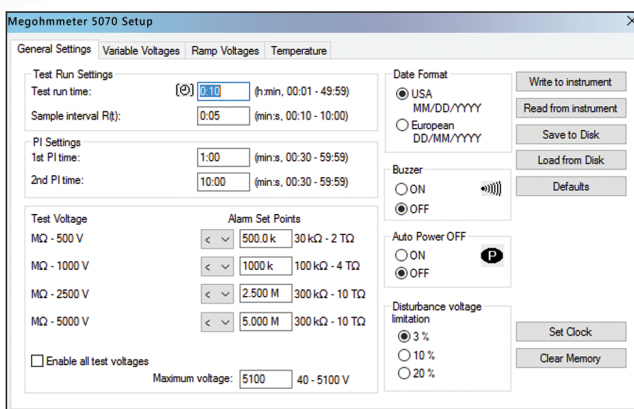
Clear and easy setup of all functions from one dialog box.



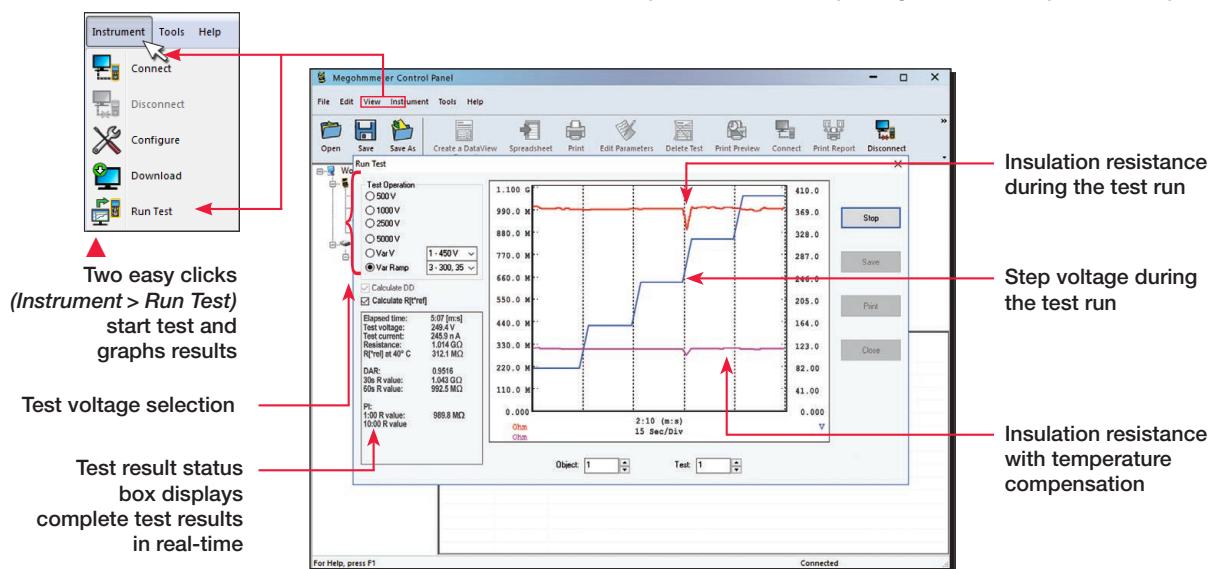
A simple press of the download button from either the setup or run dialog boxes will show all test results stored in the Model 1060.



Configuration screen allows you to set alarm levels, test time and to read and write configurations from and to the instrument.



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.



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