

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
INSULATION TESTS		
Test Voltage	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)
Fixed Test Voltages	500/1000/2500/5000/ 10,000V	500/1000/2500/5000/ 10,000/15,000V
Variable Voltages	Variable: 40V to 10kV Three user programmable voltage schemes	Variable: 40V to 15kV Three user programmable voltage schemes
Ramp Mode	Programmable ramps: start voltage/end voltage/duration	
Ramp Configuration Range	40 to 1100V/500 to 10,000V	40 to 1100V/500 to 15,000V
Step Mode	Up to 10 steps (voltage and duration configurable for each step)	
Voltage Measurement After Test	0 to 2500Vac; 0 to 4000Vdc	
Capacitance Measurement	0.05 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	
Electrical Safety	1000V CAT IV; IEC61010-1 and IEC 61557	
EMC, Mechanical Protection, Altitude	EN 61326-1, IP54, 3000m	
Dimensions/Weight	13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg (excluding accessories)	



Read our technical tips on Insulation Resistance Testing



product features



DataView® Software
Included with
Models 6550 & 6555



PRODUCT INCLUDES

One red, blue and black 9 ft 15kV, one 15kV jumper lead (blue), integral lead, one red, blue and black alligator clip (1000V CAT IV), one red and blue test probe (1000V CAT IV), optical USB cable, US 115V power cord, small classic tool bag, user manual

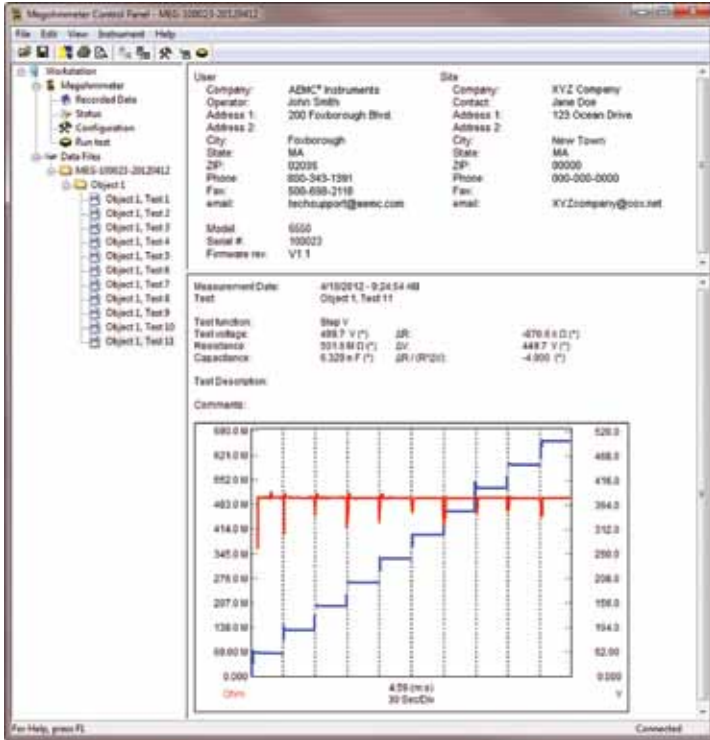
See page 16 for ordering information

MEGOHMMETERS

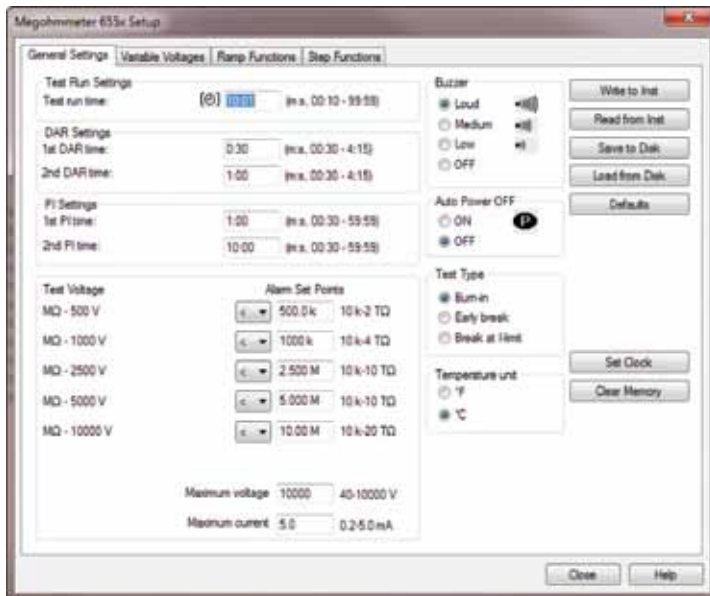
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DataView® Displays



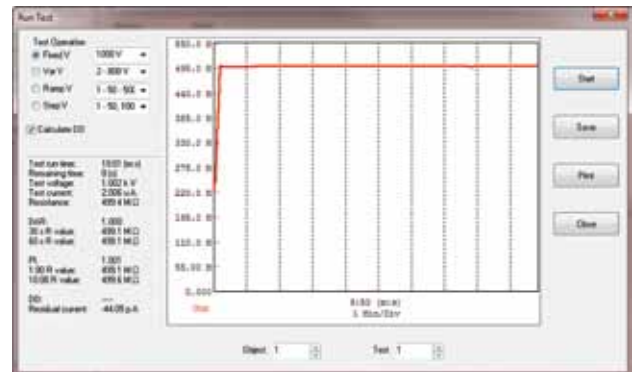
All stored test results presented on screen.



Clear and straight forward set up of parameters.

► 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



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 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 w/DataView® software)

DataView®

Data Analysis and Reporting Software for Megohmmeters



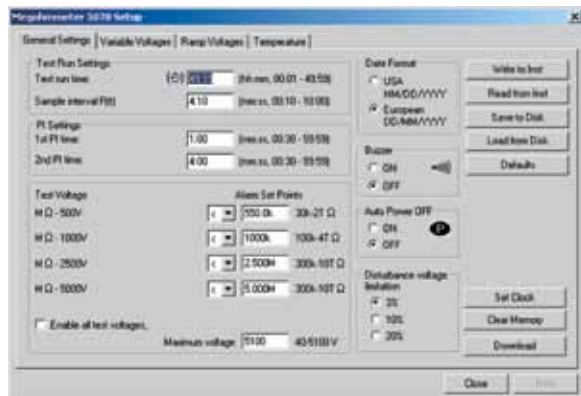
Configure all functions of the Megohmmeter Models 1060, 5060, 5070, 6550 & 6555



- 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
 - 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



Clear and easy setup from one dialog box for Model 5060.

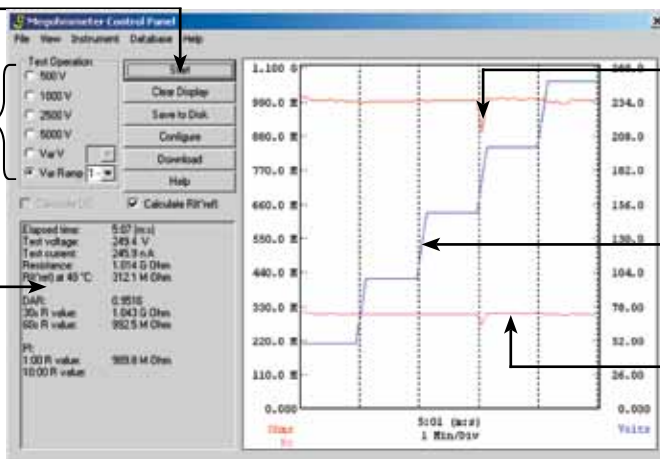


Four tabbed dialog boxes allow for clear and easy setup of all functions of the Model 5070, including setup for variable voltage and alarm set points, as well as step voltage tests and temperature compensation.

One button operation starts test and graphs results

Test voltage selection

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



Insulation resistance during the test run

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.