

MEGOHMMETERS

10,000V / 15,000V DIGITAL



MODELS 6550 & 6555

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

SPECIFICATIONS

MODEL	6550	6555
INSULATION TESTS		
Test Voltage		
500V	10kΩ to 2000GΩ (2TΩ)	10kΩ to 2000GΩ (2TΩ)
1000V	10kΩ to 4000GΩ (4TΩ)	10kΩ to 4000GΩ (4TΩ)
2500V	10kΩ to 10,000GΩ (10TΩ)	10kΩ to 10,000GΩ (10TΩ)
5000V	10kΩ to 15,000GΩ (15TΩ)	10kΩ to 15,000GΩ (15TΩ)
10,000V	10kΩ to 25,000GΩ (25TΩ)	10kΩ to 25,000GΩ (25TΩ)
15,000V	—	10kΩ to 30,000GΩ (25TΩ)
Fixed Test Voltages	500/1000/2500/5000/10,000V	500/1000/2500/5000/10,000/15,000V
Variable Voltages	Variable: 40 to 10 KV with three user programmable voltage schemes	Variable: 40 to 15 KV with 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 Test/Safety Test	2500Vac to 4000Vdc	
Capacitance Measurement	0.005 to 19.99μF	
Leakage Current Measurement	0 to 10mA	
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	
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)	
SAFETY		
Safety Rating / Ingress Protection	1000V CAT IV; IEC61010-1 and IEC 61557 / IP54	
EMC/Mechanical Protection/Altitude	EN 61326-1/IP54/2000m	



DataView®

FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40V to 10kV/15kV
- Wide measurement range from 10kΩ to 25TΩ/30TΩ
- 5mA short circuit current
- Step and 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

ACCESSORIES/REPLACEMENTS

CATALOG #2151.18 / #2151.19 / #2151.20

Lead – (1) Shielded Safety Lead 25 ft w/Hippo Clips (15kV) (black / blue / red)

CATALOG #2151.21 / #2151.22 / #2151.23

Lead – (1) Shielded Safety Lead 45 ft w/Hippo Clips (15kV) (black / blue / red)

PRODUCT INCLUDES

Small classic tool bag, set of color-coded (red/blue/black) 9 ft (15kV), integral leads and alligator clips (1000V CAT IV), (1) 15kV jumper lead (blue), set of (2) color-coded test probes (red/black-1000V CAT IV), optical USB cable, 115V US power cord, 9.6V rechargeable NiMH batteries, and a USB thumb drive supplied with DataView® software and a 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, 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, DataView® software)



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 200MΩ	500kΩ	100Ω	—	600Vac	Hand-cranked	Analog	No
6503	2126.52	250V 500V 1000V	1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ	—	—	—	600Vac	Hand-cranked	Analog	No
6527	2126.53	250V 500V 1000V	1kΩ to 4GΩ 1kΩ to 4GΩ 1kΩ to 4GΩ	400kΩ	400Ω	—	600Vac 1000Vdc	6 x AA Alkaline Batteries	Digital/ Analog	No
6522	2155.51	250V 500V 1000V	50kΩ to 10GΩ 100kΩ to 20GΩ 200kΩ to 40GΩ	—	10Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6528	2156.51	250V 500V 1000V	0.050MΩ to 4200MΩ 0.100MΩ to 4200MΩ 0.20MΩ to 11GΩ	0 to 420kΩ	0 to 40Ω (200mA test current ≤ 2Ω)	—	700Vac 700Vac/dc	6 x AA Alkaline Batteries	Digital	No
6529	2156.52	50V 100V 250V 500V 1000V	0.010MΩ to 420MΩ 0.020MΩ to 420MΩ 0.050MΩ to 420MΩ 0.100MΩ to 420MΩ 0.20MΩ to 11GΩ	0 to 420kΩ	0 to 40Ω (200mA test current ≤ 2Ω)	—	700Vac 700Vac/dc	6 x AA Alkaline Batteries	Digital	No
6524	2155.52	50V 100V 250V 500V 1000V	10kΩ to 10GΩ 20kΩ to 20GΩ 50kΩ to 50GΩ 100kΩ to 100GΩ 200kΩ 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 10GΩ 20kΩ to 20GΩ 50kΩ to 50GΩ 100kΩ to 100GΩ 200kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10μF	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6532	2155.54	50V 100V	10kΩ to 10GΩ 20kΩ 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 1GΩ 5kΩ to 2GΩ 10kΩ to 10GΩ 50kΩ to 25GΩ 100kΩ 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	(variable in 1V steps)								
1050	2130.01	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	400kΩ	40Ω	0.005 to 4.999μF	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	400kΩ	40Ω	0.005 to 4.999μF	1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6505	2130.18	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5050	2130.20	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5060	2130.21	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
5070	2130.30	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Graphic/ Digital	Yes
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 19.99μF	2500Vac 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 19.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes