

MEGOHMMETERS

10,000 V / 15,000 V 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

MODELS	6550		6555	
INSULATION TESTS				
Test Voltage				
500 V	10 kΩ to 2000 GΩ (2 TΩ)			
1000 V	10 kΩ to 4000 GΩ (4 TΩ)			
2500 V	10 kΩ to 10,000 GΩ (10 TΩ)			
5000 V	10 kΩ to 15,000 GΩ (15 TΩ)			
10,000 V	10 kΩ to 25,000 GΩ (25 TΩ)			
15,000 V	—		10 kΩ to 30,000 GΩ (30 TΩ)	
Fixed Test Voltages	(500, 1000, 2500, 5000, and 10,000) V		(500, 1000, 2500, 5000, 10,000, and 15,000) V	
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 1100) V / (500 to 10,000) V		(40 to 1100) V / (500 to 15,000) V	
Step Mode	Up to 10 steps (voltage and duration configurable for each step)			
Voltage Test/Safety Test	2500 Vac to 4000 Vdc			
Capacitance Measurement	(0.005 to 19.99) μF			
Leakage Current Measurement	(0 to 10) mA			
Discharge After Test	Yes/Automatic			
Additional Test Stop Modes				
I-Limit	Programmable: (0.2 to 5) mA			
Early-Break	di/dt			
Timer	Up to 99 m 59 s			
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, (2) 9.6 V 4 A-h battery packs charging by external voltage: (90 to 260) V; (50/60) Hz			
Battery Charging	Battery charging allowed while performing insulation measurements			
Dimensions/Weight	(13.39 x 11.81 x 7.87) in (340 x 300 x 200) mm / approx. 13.7 lb (6.2 kg)			
SAFETY				
Safety Rating	1000 V CAT IV; IEC61010-1 and IEC 61557			
EMC/Mechanical Protection/Altitude	EN 61326-1/IP54/2000 m			

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PRODUCT INCLUDES

Small classic tool bag, set of (3) 10 ft color-coded (red/blue/black) safety leads with clips (3000 V CAT III), (1) 15 kV jumper lead (blue), optical USB cable, 115 V US power cord, 9.6 V rechargeable NiMH batteries, and a USB drive with DataView® software and user manual.

CATALOG NO.	DESCRIPTION
2130.31	Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500 V, 1000 V, 2500 V, 5000 V, 10 kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB, w/DataView® Software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500 V, 1000 V, 2500 V, 5000 V, 10 kV, 15 kV, Ramp, StepV, Variable, Auto DAR/PI/DD, DataView® software)



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DataView®

FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40 V to 10 kV/15 kV
- Wide measurement range from 10 k Ω to 25 T Ω /30 T Ω
- 5 mA short circuit current
- Step and Ramp voltage testing
- Automatic calculation of DAR / PI / DD / Δ R (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 #2133.72 Small classic tool bag

CATALOG #2135.41 Optical USB cable

CATALOG #2140.19 (1) 9.6 V NiMH battery (two required)

CATALOG #2151.36 Lead – Set of (3) color-coded (red/black/blue) 10 ft safety leads w/clips (15 kV)

CATALOG #2151.37 Lead – 1.5 ft blue jumper lead (15 kV)

CATALOG #2151.38 Lead – Set of (3), 25 ft, 15 kV color-coded (red/blue/black) safety leads w/clips

CATALOG #5000.32 Power cord - 240 V EU



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
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 1 kΩ to 4 GΩ 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 Ω, 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 Ω, 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 Ω, 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	Digital/ 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	—		(0.001 to 49.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Graphic/ Digital	Yes
6550	2130.31	500 V 1000 V 2500 V 5000 V 10,000 V	10 kΩ to 2000 GΩ 10 kΩ to 4000 GΩ 10 kΩ to 10,000 GΩ 10 kΩ to 15,000 GΩ 10 kΩ to 25,000 GΩ	—		(0.001 to 19.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Digital/ Analog	Yes
6555	2130.32	500 V 1000 V 2500 V 5000 V 10,000 V 15,000 V	10 kΩ to 2000 GΩ 10 kΩ to 4000 GΩ 10 kΩ to 10,000 GΩ 10 kΩ to 15,000 GΩ 10 kΩ to 25,000 GΩ 10 kΩ to 30,000 GΩ	—		(0.001 to 19.99) μF	2500 V _{AC} 4000 V _{DC}	Rechargeable NiMH Battery	Digital/ Analog	Yes

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