

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

- True Megohmmeter®
- Fixed or programmable test voltage from 40 V to (10/15) kV
- Wide measurement range from 10 kΩ to (25/30) TΩ
- 5 mA 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

- CAT. #2133.72 Small classic tool bag
- CAT. #2135.41 Optical USB cable
- CAT. #2140.19 (1) 9.6 V NiMH battery (*two required*)
- CAT. #2151.36 Lead – Replacement Set of 3, 10 ft (15 kV) with integral clips
- CAT. #2151.37 Lead – Replacement 1.5 ft (15 kV) blue jumper lead
- CAT. #2151.38 Lead – Set of (3), 25 ft, 15 kV w/ integral clips
- CAT. #2151.39 Lead – One 45 ft, (15 kV), blue with integral clip
- CAT. #2151.40 Lead – One 45 ft, (15 kV), red with integral clip
- CAT. #2151.41 Lead – One 45 ft, (15 kV), black with integral clip
- CAT. #5000.32 Power cord – 240 V EU

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.

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 V to 10 KV with three user programmable voltage schemes	Variable: 40 V 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 (<i>voltage and duration configurable for each step</i>)	
Voltage Test	2500 V _{ac} to 4000 V _{dc}	
Capacitance Measurement	(0.005 to 19.99) μF	
Leakage Current Measurement	(0 to 10) mA	
Discharge After Test	Yes (<i>Automatic</i>)	
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 Compliance	IEC / EN 61010-2-034 or BS EN 61010-2-034, IEC-61557 parts 1 and 2 (up to 10 kV), 1000 V CAT IV, Pollution Degree 2	
Mechanical Protection / Altitude	IP54 / 2000 m	

Consult factory for NIST Calibration prices.

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, w/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)

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	10 V 100 V (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
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

Consult factory for NIST Calibration prices.