MEGOHMMETERS
1000 V DIGITAL & MULTI-FUNCTION HAND-HELD
MODEL 6529

IP 40 (with leads connected) | 600 V CAT IV | CE | ETL

Insulation tester ideal for maintenance on electrical equipment such as motors, cables, and more.



TRUE MegOhmmeter®

US Design Patent US D890,617 S

MODEL	6529
INSULATION RESISTANCE TESTING FUNCTIONS	
Maximum Test Voltage	1000 V
Test Voltage Options	(50, 100, 250, 500, 1000) V
Maximum Resistance Measurement (1)	10 GΩ
Typical Accuracy	± 3 % ± 3 counts
Timer	(0 to 40) min
PI / DAR	Yes
Alarms	Yes
Guard Lead	N/A
Remote Probe Compatible	N/A
ELECTRICAL - MULTIMETER FUNCTIONS	
Voltage	700 VAC/DC
Resistance	400 KΩ
Continuity	40 Ω
Lead Compensation	Yes
Capacitance	N/A
DATA STORAGE & REPORTING	
Data Storage and DataView® Reporting	N/A
Bluetooth®	N/A
GENERAL	
Display	Backlit digital
Power Source	(6) AA alkaline batteries
SAFETY & ENVIRONMENT	
CAT Rating	600 V CAT IV
IP Rating	IP40
RECOMMENDED USES	
Cable and Wire ≤ 600 V	Yes
Communications Wiring and Components	N/A
Low Voltage Motors < 480 V	Yes
Low Voltage Transformers	Yes
ESD Flooring, Surfaces and Components	N/A

Consult factory for NIST Calibration prices.

(1) Specific to test voltage

FEATURES

- Hand-held Megohmmeter designed for insulation resistance testing and diagnostic evaluation of cables, switchgear components, and electrical equipment in maintenance and commissioning applications
- Ergonomic hand-held form with backlit digital display provides clear visibility of insulation behavior in low-light and industrial environments
- 10 GΩ of insulation resistance is measurable when testing at 1 kV
- Differential Mode Resistance (DMR) compares successive measurements to a stored reference value, providing fast pass/fail indication without manual calculation
- Programmable alarm functions provide immediate visual indication when insulation values fall outside user-defined limits, supporting faster pass/fail decisions
- Designed with integrated safety protections, including 600 V CAT IV rating and internal fuse protection, to help safeguard the operator during testing



PRODUCTS INCLUDE

CAT. #2126.55 MEGOHMMETER MODEL 6529

Includes soft carrying case, set of (2) 5 ft color-coded *(red/black)* silicone leads and alligator clips, (2) color-coded *(red/black)* test probes, (6) AA batteries and user manual.

See pages 152 to 155 for Accessories/Replacements

CAT. #	DESCRIPTION
2126.55	Megohmmeter Model 6529 (Digital, (50, 100, 250, 500) V, 1 kV, 420 k-Ohm, Continuity, Alarm, Timer & PI/DAR)

Technical Assistance (800) 343-1391

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AEMC® INSTRUMENTS

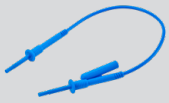
ACCESSORIES / REPLACEMENTS

	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 *(for units w/o USB port purchased before July 1, 2022)*								•			•	•		
	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									•	•	•	•		

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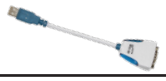
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ACCESSORIES / REPLACEMENTS

	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													•	•

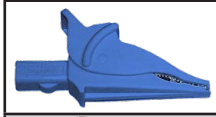
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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	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 × 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 × 85) mm									•	•	•	•		
	5000.60	Adapter – RS-232 to USB 2.0 Replacement								•			•	•		

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ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6503	6527	6529	6522	6526	6534	6536	1060	6505	5050	5060	5070	6550	6555
	5000.66	Megohmmeter Calibration Checker – Provides (2) test resistances of 150 kO and 100 MO	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	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	•	•	•	•	•	•	•	•	•					

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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 VAC	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 VAC/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 VAC 1000 VDC	(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 VAC 700 VAC/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 VAC/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 VAC/DC	(6) AA Alkaline Batteries	Digital / Analog	Yes
6536	2155.56	10 V 100 V (variable in 1 V steps)	2 kΩ to 20 GΩ	1000 kΩ	(10, 100) Ω	–	700 VAC/DC	(6) AA Alkaline Batteries	Digital / Analog	No
6536 ESD Floor Kit	2155.57									
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 VAC/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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	Rechargeable NiMH Battery	Graphical / Analog	Yes

Consult factory for NIST Calibration prices.

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