

# MEGOHMMETERS

## 1000 V DIGITAL & MULTI-FUNCTION HAND-HELD



(with leads connected)



US Design Patent US D890,617 S

### MODEL 6529

*Insulation tester ideal for maintenance and repair operations on electrical equipment such as motors, cables, and more*



SCAN TO LEARN MORE

**TRUE MegOhmmeter®**

### FEATURES

- Selectable test voltages (50, 100, 250, 500 and 1000) V
- Basic DMM functions; Volts, Continuity, Resistance
- DAR and PI ratio test functions
- Dual line display to view the insulation value and real-time test voltage simultaneously in an easy-to-read format
- DMR mode - relative resistance comparison to a reference value
- 2-color backlighting easily shows alarm conditions
- Shockproof sheath for excellent handling
- Automatic Power OFF function to optimize the battery life
- Programmable alarm thresholds

### ACCESSORIES/REPLACEMENTS

**CAT. #2138.54**

Continuity probe

**CAT. #2119.02**

Soft carrying pouch

**CAT. #2971.04**

Fuse – Set of (2) FF, 200 mA, 1000 V, 10 kA, (6 x 32) mm

**CAT. #5000.94**

Lead – Set of (2) 5 ft color-coded (red/black) silicone leads with 4 mm straight/right angle banana plugs (Rated 1000 V CAT IV, UL)

**CAT. #5000.97/#5000.98**

Black/red test probe (1000 V CAT IV, 15 A, UL V2)

**CAT. #5000.99/#5100.00**

Clip – Safety alligator (black/red) (1000 V CAT IV, 15 A, UL V2)



MODEL	6529
<b>AC / DC VOLTAGE MEASUREMENT</b>	
Range	700 V <sub>AC</sub> , 700 V <sub>AC+DC</sub>
Accuracy	DC AC+DC
	± (1 % R + 1 ct) ± (1.2 % R + 1 ct)
Resolution	1 V
Frequency Range	DC & (30 to 440) Hz
Input Impedance	25 MΩ
<b>INSULATION MEASUREMENT</b>	
Test Voltage / Resistance Range	
50 V	(0.010 to 420.0) MΩ
100 V	(0.020 to 420.0) MΩ
250 V	(0.050 to 4200) MΩ
500 V	(0.100 to 4200) MΩ
1000 V	0.20 MΩ to 11.00 GΩ
Measurement Accuracy	
4 M / 40 MΩ / 400 MΩ	± (3 % R + 10 cts)
4.2 GΩ	± (4 % R + 10 cts)
11 GΩ	± (10 % R + 10 cts) (1000 V range)
<b>CONTINUITY MEASUREMENT</b>	
Range	(0 to 40) Ω (200 mA test current ≤ 2 Ω)
Accuracy	± (1.2 % R + 3 cts)
Resolution Max	0.01 Ω
Leads Compensation	Up to 5 Ω
Threshold	Audible signal triggered, Selectable ≤ (1 or 2) Ω
<b>RESISTANCE MEASUREMENT</b>	
Range	(0 to 400) kΩ (Auto ranging)
Accuracy	± (1.2 R + 3 cts)
Resolution Max	0.1 Ω
DMR Mode	Compares successive measurements to a reference value with alarm indication and red backlit display if deviation changes by the programmed %. The difference between the new reading and the reference measurement, along with the % deviation is displayed.
<b>GENERAL</b>	
Timed Test	1 s to 39.59 min selectable
Display	LCD with backlight
Power Supply	(6) AA alkaline batteries (NEDA 15 A or IEC LR6)
Battery Life (5 s ON, 25 s OFF)	> 2000 measurement in MΩ, > 300 h in V <sub>AC</sub> / DC, > 6000 measurement in Continuity Test
Dimensions	(8.54 x 3.54 x 2.44) in (217 x 90 x 62) mm
Weight	1.68 lb (762 g)
Operating Temperature	(14 to 122) °F (-10 to 50) °C, 90 % RH
<b>SAFETY</b>	
Safety Rating	600 V CAT IV

Consult factory for NIST Calibration prices.

### PRODUCTS INCLUDE

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 (Rated 1000 V CAT IV, UL V2), (6) 1.5 V AA batteries and user manual.

**CAT. # DESCRIPTION**

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

# 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 <sub>AC</sub>	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 <sub>AC/DC</sub>	(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 <sub>AC</sub> 1000 V <sub>DC</sub>	(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 <sub>AC</sub> 700 V <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	Rechargeable NiMH Battery	Digital / Analog	Yes

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