

# MEGOHMMETERS

## 1000 V DIGITAL & MULTI-FUNCTION HANDHELD




### MODEL 6529

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



US Design Patent US D890,617 S

### SPECIFICATIONS

<b>MODEL</b>	<b>6529</b>
<b>AC/DC VOLTAGE MEASUREMENT</b>	
<b>Range</b>	700 VAC, 700 VAC+DC
<b>Accuracy</b>	DC AC+DC $\pm (1\% R + 1 \text{ ct})$ $\pm (1.2\% R + 1 \text{ ct})$
<b>Resolution</b>	1 V
<b>Frequency Range</b>	DC & (30 to 440) Hz
<b>Input Impedance</b>	25 M $\Omega$
<b>INSULATION MEASUREMENT</b>	
<b>Test Voltage/Resistance Range</b>	
50 V	(0.010 to 420.0) M $\Omega$
100 V	(0.020 to 420.0) M $\Omega$
250 V	(0.050 to 4200) M $\Omega$
500 V	(0.100 to 4200) M $\Omega$
1000 V	0.20 M $\Omega$ to 11.00 G $\Omega$
<b>Measurement Accuracy</b>	
40 $\Omega$ /40 M $\Omega$ /400 M $\Omega$	$\pm (1.5\% R + 10 \text{ ct})$
4.2 G $\Omega$	$\pm (4\% R + 10 \text{ ct})$
11 G $\Omega$	$\pm (10\% R + 10 \text{ ct})$ (1000 V range)
<b>CONTINUITY MEASUREMENT</b>	
<b>Range</b>	(0 to 40) $\Omega$ (200 mA test current $\leq 2 \Omega$ )
<b>Accuracy</b>	1.2% R + 3 ct
<b>Resolution Max</b>	0.01 $\Omega$
<b>Leads Compensation</b>	Up to 5 $\Omega$
<b>Threshold</b>	Audible signal triggered, Selectable $\leq 1 \Omega$ or 2 $\Omega$
<b>RESISTANCE MEASUREMENT</b>	
<b>Range</b>	(0 to 420) k $\Omega$ (Auto ranging)
<b>Accuracy</b>	$\pm (1.2 R + 3 \text{ ct})$
<b>Resolution Max</b>	0.1 $\Omega$
<b>DMR Mode</b>	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>	
<b>Time Test</b>	10 s to 39.59 min selectable
<b>Display</b>	LCD with backlight
<b>Power Supply</b>	(6) AA alkaline batteries (NEDA 15 A or IEC LR6)
<b>Battery Life (5 s ON, 25 s OFF)</b>	> 2000 measurement in M $\Omega$ , > 300 h in VAC/DC, > 6000 measurement in Continuity Test
<b>Dimensions</b>	(8.54 x 3.54 x 2.44) in (217 x 90 x 62) mm
<b>Weight</b>	1.68 lb (762 g)
<b>Operating Temperature</b>	(14 to 122) °F (-10 to 50) °C, 90 % RH
<b>SAFETY</b>	
<b>Safety Rating</b>	IEC / EN 61010-1, 600 V CAT IV, CE mark 

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### 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.



### 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

#### Catalog #2138.54

Continuity probe

#### Catalog #2119.02

Soft carrying pouch

#### Catalog #2971.04

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

#### Catalog #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)

#### Catalog #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)



CATALOG NO.	DESCRIPTION
2126.55	Megohmmeter Model 6529 (Digital, 50 V, 100 V, 250 V, 500 V, 1 kV, 420 k-Ohm, Continuity, Alarm, Timer & PI/DAR)

# 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 <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 1 kΩ to 4 GΩ 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 Ω, 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 Ω, 100 Ω	-	700 V <sub>AC/DC</sub>	(6) AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10 V	2 kΩ to 20 GΩ	1000 kΩ	10 Ω, 100 Ω	-	700 V <sub>AC/DC</sub>	(6) AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57	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 <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
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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <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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