

MEGOHMMETERS

1000V DIGITAL & MULTI-FUNCTION HANDHELD




MODEL 6528 & 6529

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

SPECIFICATIONS

US Design Patent US D890,617 S

MODELS	6528	6529
AC/DC VOLTAGE MEASUREMENT		
Range	700 VAC, 700VAC+DC	
Accuracy	DC $\pm(1\%R + 1ct)$ AC+DC $\pm(1.2\%R + 1ct)$	
Resolution	1V	
Frequency Range	DC & 30 to 440 Hz	
Input Impedance	25M Ω	
INSULATION MEASUREMENT		
Test Voltage/Resistance Range		
50V	—	0.010M Ω to 420.0M Ω
100V	—	0.020M Ω to 420.0M Ω
250V	0.050M Ω to 4200M Ω	0.050M Ω to 4200M Ω
500V	0.100M Ω to 4200M Ω	0.100M Ω to 4200M Ω
1000V	0.20M Ω to 11.00G Ω	0.20M Ω to 11.00G Ω
Measurement Accuracy	$\pm(1.5\%R + 10ct)$ $\pm(4\%R + 10ct)$ $\pm(10\%R + 10ct)$ (1000V range)	
40 Ω /40M Ω /400M Ω		
4.2G Ω		
11G Ω		
CONTINUITY MEASUREMENT		
Range	0 to 40 Ω (200mA test current $\leq 2\Omega$)	
Accuracy	1.2%R + 3ct	
Resolution Max	0.01 Ω	
Leads Compensation	Up to 5 Ω	
Threshold	Audible signal triggered, Selectable ≤ 1 or 2Ω	
RESISTANCE MEASUREMENT		
Range	0 to 420k Ω (Auto ranging)	
Accuracy	$\pm(1.2 R + 3ct)$	
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 are displayed.	
GENERAL		
Time Test	10 seconds to 39.59 mins selectable	
Display	LCD with backlight	
Power Supply	(6) AA alkaline batteries (NEDA 15A or IEC LR6)	
Battery Life (5s ON, 25s OFF)	>2000 measurement in M Ω , >300h in V AC/DC, >6000 measurement in Continuity Test	
Dimensions	8.54 x 3.54 x 2.44" (217 x 90 x 62mm)	
Weight	1.68 lbs (760g)	
Operating Temperature	14° to 122°F (-10° to +50°C), 90% RH	
SAFETY		
Safety Rating	IEC / EN 61010-1, 600V CAT IV, CE mark 	
Ingress Protection	IP 40 (with leads connected)	

PRODUCTS INCLUDE

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

CATALOG NO.	DESCRIPTION
2126.54	Megohmmeter Model 6528 (Digital, 250V, 500V, 1kV, 420k-Ohm, V, Continuity, Alarm & Timer)
2126.55	Megohmmeter Model 6529 (Digital, 50V, 100V, 250V, 500V, 1kV, 420k-Ohm, Continuity, Alarm, Timer & PI/DAR)



FEATURES

- Selectable test voltages 250, 500 and 1000V (model 6528)
- Selectable test voltages 50, 100, 250, 500 and 1000V (model 6529)
- Basic DMM functions; Volts, Continuity, Resistance
- DAR and PI ratio test functions (model 6529)
- 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, 200mA, 1000V, 10kA, 6x32mm

Catalog #5000.94

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

Catalog #5000.97/#5000.98

Black/Red Test Probe (1000V CAT IV, 15A, UL V2)
 Cat #5000.99/#5100.00
 Clip – Safety Alligator – Black/Red (1000V CAT IV, 15A, UL V2)



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
6501	2126.51	500V	0.5 to 200MΩ	500kΩ	100Ω	—	600Vac	Hand-cranked	Analog	No
6503	2126.52	250V 500V 1000V	1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ	—		—	600Vac	Hand-cranked	Analog	No
6527	2126.53	250V 500V 1000V	1kΩ to 4GΩ 1kΩ to 4GΩ 1kΩ to 4GΩ	400kΩ	400Ω	—	600Vac 1000Vdc	6 x AA Alkaline Batteries	Digital/ Analog	No
6522	2155.51	250V 500V 1000V	50kΩ to 10GΩ 100kΩ to 20GΩ 200kΩ to 40GΩ	—	10Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6528	2126.54	250V 500V 1000V	0.050MΩ to 4200MΩ 0.100MΩ to 4200MΩ 0.20MΩ to 11GΩ	0 to 420kΩ	0 to 40Ω (200mA test current ≤ 2Ω)	—	700Vac 700Vac/dc	6 x AA Alkaline Batteries	Digital	No
6529	2126.55	50V 100V 250V 500V 1000V	0.010MΩ to 420MΩ 0.020MΩ to 420MΩ 0.050MΩ to 420MΩ 0.100MΩ to 4200MΩ 0.20MΩ to 11GΩ	0 to 420kΩ	0 to 40Ω (200mA test current ≤ 2Ω)	—	700Vac 700Vac/dc	6 x AA Alkaline Batteries	Digital	No
6524	2155.52	50V 100V 250V 500V 1000V	10kΩ to 10GΩ 20kΩ to 20GΩ 50kΩ to 50GΩ 100kΩ to 100GΩ 200kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6526	2155.53	50V 100V 250V 500V 1000V	10kΩ to 10GΩ 20kΩ to 20GΩ 50kΩ to 50GΩ 100kΩ to 100GΩ 200kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10μF	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6532	2155.54	50V 100V	10kΩ to 10GΩ 20kΩ to 20GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10μF	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6534	2155.55	10V 25V 100V 250V 500V	2kΩ to 1GΩ 5kΩ to 2GΩ 10kΩ to 10GΩ 50kΩ to 25GΩ 100kΩ to 50GΩ	1000kΩ	10Ω, 100Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10V 100V	2kΩ to 20GΩ	1000kΩ	10Ω, 100Ω	—	700Vac/dc	6 x AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57	(variable in 1V steps)								
1050	2130.01	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	400kΩ	40Ω	0.005 to 4.999μF	1000Vac/dc	8 x 1.5V C Cell Batteries	Digital/ Analog	No
1060	2130.03	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	400kΩ	40Ω	0.005 to 4.999μF	1000Vac/dc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6505	2130.18	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5050	2130.20	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	No
5060	2130.21	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
5070	2130.30	500V 1000V 2500V 5000V	10kΩ to 2TΩ 10kΩ to 4TΩ 10kΩ to 10TΩ 10kΩ to 10TΩ	—	—	0.001 to 49.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Graphic/ Digital	Yes
6550	2130.31	500V 1000V 2500V 5000V 10,000V	10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ	—	—	0.001 to 19.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes
6555	2130.32	500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ 10kΩ to 4000GΩ 10kΩ to 10,000GΩ 10kΩ to 15,000GΩ 10kΩ to 25,000GΩ 10kΩ to 30,000GΩ	—	—	0.001 to 19.99μF	2500Vac 4000Vdc	Rechargeable NiMH Battery	Digital/ Analog	Yes

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