

MEGOHMMETERS

1000 V DIGITAL



MODEL 6527

Insulation tester with DMM functions specially designed for testing wiring, small motors and other equipment



TRUE MegOhmmeter®

FEATURES

- True Megohmmeter®
- Insulation test voltage selections of (250, 500, and 1000) V
- Measure insulation to 4000 MΩ (4 GΩ)
- TEST LOCK feature for time sensitive measurements up to 15 minutes
- Auto discharge after insulation test
- AC/DC voltmeter to 600 V_{AC}/1000 V_{DC}
- Ohmmeter to 400 kΩ
- Continuity meter with > 200 mA test current
- Test lead resistance compensation for accurate low resistance measurements
- Auto HOLD function to freeze readings
- Large and bright dual display with blue backlight
- Auto Power OFF feature
- Ergonomic over-molded case with back-stand

MODEL	6527			
Range	4 MΩ	40 MΩ	400 MΩ	4000 MΩ (4 GΩ)
INSULATION TESTS (250 V)				
Resolution	0.001 MΩ	0.01 MΩ	0.1 MΩ	1 MΩ
Accuracy	± 2 % of Reading ± 10 cts		± 3 % of Reading ± 5 cts	± 4 % of Reading ± 5 cts
Test Current	1 mA test current into a 250 kΩ load			
INSULATION TESTS (500 V)				
Resolution	0.001 MΩ	0.01 MΩ	0.1 MΩ	1 MΩ
Accuracy	± 2 % of Reading ± 10 cts		± 2 % of Reading ± 5 cts	± 4 % of Reading ± 5 cts
Test Current	1 mA test current into a 500 kΩ load			
INSULATION TESTS (1000 V)				
Resolution	0.001 MΩ	0.01 MΩ	0.1 MΩ	1 MΩ
Accuracy	± 3 % of Reading ± 10 cts	± 2 % of Reading ± 10 cts	± 3 % of Reading ± 5 cts	± 4 % of Reading ± 5 cts
Test Current	1 mA test current into a 1 MΩ load			
VOLTMETER RANGES				
V AC / DC	600 V		1000 V	
Resolution	1 V			
Accuracy	± 0.8 % of Reading ± 3 cts ± 1.2 % of Reading ± 10 cts			
Input Impedance	10 MΩ 10 MΩ (40 / 400) Hz			
RESISTANCE TESTS - OHMMETER				
Range	(0 to 400) kΩ			
Resolution	0.1 kΩ			
Accuracy	± 1.2 % of Reading ± 3 cts			
CONTINUITY TESTS				
Range	(0 to 40) Ω	(0 to 400) Ω		
Resolution	0.01 Ω	0.1 Ω		
Accuracy	1.2 % ± 3 cts			
Test Current	> 200 mA (0.2 / 2) Ω			
Test Lead Compensation	Yes: Dedicated push-button			
Beeper	Yes: < 35 Ω ± 3 Ω			
ELECTRICAL				
Power Supply	(6) 1.5 V AA batteries – Alkaline recommended (included)			
MECHANICAL				
Dimensions	(7.9 x 3.6 x 2.0) in (200 x 92 x 50) mm			
Weight	24 oz (700 g)			
SAFETY				
Safety Rating	600 V CAT IV			

Consult factory for NIST Calibration prices.

PRODUCT INCLUDES

Soft carrying case, set of (2) 5 ft color-coded test leads with alligator clips, (1) black test probe and user manual.



CAT. # DESCRIPTION

2126.53 Megohmmeter Model 6527 (Digital (250, 500, 1000) V, Continuity, 400 kΩ, V)



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

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