

MEGOHMMETERS

500V & 1000V HAND-CRANKED

MODELS 6501 & 6503

Designed for acceptance testing and preventive maintenance of wiring, cables, switchgear and motors - Ideal for use in areas affected by floods



SPECIFICATIONS

MODELS	6501	6503
INSULATION TESTS		
Test Ranges*		
250V	—	1 to 500M Ω
500V	0.5 to 200M Ω	1 to 500M Ω
1000V	—	10 to 5000M Ω (5G Ω)
Short Circuit Current	5mA (max)	
Voltage Measurement/ Safety Check	0 to 600V _{AC}	
Accuracy (M Ω)	$\pm 2.5\%$ of Full Scale Length	
Automatic Discharge	5s/ μ F	8s/ μ F
Charge Time		
250V	—	0.2s/ μ F
500V	0.5s/ μ F	0.5s/ μ F
1000V	—	0.5s/ μ F
RESISTANCE TESTS		
Measurement Range	0 to 500k Ω	—
Test Current	1mA _{DC}	—
Accuracy	$\pm 2.5\%$ of Full Scale Length	—
CONTINUITY TESTS		
Measurement Range	0 to 100 Ω	—
Test Current	5mA _{DC}	—
Accuracy	$\pm 2.5\%$ of Full Scale Length	—
SAFETY		
Safety Rating / IP Protection	EN 61010-1, 600V Cat. II, 300V CATIII / IP54	

*DC test voltage generated in full across the entire measurement range.

PRODUCT INCLUDES

MODEL 6501

Soft carrying case, (2) color-coded leads, (2) color-coded alligator clips (red/black) and a user manual.

MODEL 6503

Soft carrying case, (3) color-coded leads, (3) color-coded alligator clips (red/black/blue), black test probe and a user manual.



SHOWN: 6503

FEATURES

- True Megohmmeter®
- No batteries or power needed to operate
- Test voltages of 250V, 500V and 1000V (model dependent)
- Insulation measurements to 200M Ω and 5000M Ω (model dependent)
- LED indicates constant voltage output and proper cranked speed controlled by voltage regulator
- Automatic discharge when measurement is finished
- Auto-Ranging – dual scale operation for better sensitivity and easier readings
- Compact self-contained package; folded crank
- Voltage displayed prior to, during and at the end of test
- Large direct reading scale



CATALOG NO.	DESCRIPTION
2126.51	Megohmmeter Model 6501 (Hand-cranked, 500V, Resistance, Continuity)
2126.52	Megohmmeter Model 6503 (Hand-cranked, 250V, 500V, 1000V)

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	2156.51	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	2156.52	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