

MEGOHMMETERS

5000V DIGITAL/ANALOG

MODEL 6505

Contributes to the safety of electrical installations and equipment



SPECIFICATIONS

MODEL	6505
INSULATION TESTS	
Test Voltage/Range	500V 10kΩ to 2000GΩ (2TΩ) 1000V 10kΩ to 4000GΩ (4TΩ) 2500V 10kΩ to 10,000GΩ (10TΩ) 5000V 10kΩ to 10,000GΩ (10TΩ)
User Programmable Test	40 to 1000V: 10V increments 1000 to 5100V: 100V increments
Short Circuit Current	<1.6mA ±5%
Accuracy	10kΩ to 399.9GΩ ±5% of Reading ±3cts 400GΩ to 10TΩ ±15% of Reading ±10cts
DAR (1 min/30 sec)	0.02 to 50.00
PI (10 min/1 min & user programmable)	0.02 to 50.00
Capacitance Measurement	0.001 to 49.99μF; Max resolution 1nF
Leakage Current Measurement	0.00nA to 3mA; Max resolution 1pA
Programmable Run Time R(t)	1 to 60 minutes
Discharge After Test	Yes, automatic
Discharge Voltage Display	Yes
Voltage Test/Safety Check	2500VAC/4000VDC (16 to 420Hz); 1V Resolution
Voltage Warning Indicator	Yes >25V
Test Inhibition	>40% of test voltage
Guard Terminal	Yes
ELECTRICAL	
Power Source	One 9.6V NiMH battery pack (included); Line power: 85 to 256VAC (50/60Hz)



FEATURES

- True Megohmmeter®
- Simple operation
- Test voltage selections of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 10kΩ to 10,000GΩ (10TΩ)
- Adjustable and programmable test voltage (40 to 5100V)
- Automatic calculation of DAR and PI values
- Direct measurement and display of capacitance and leakage current
- Display resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Automatic test inhibition (if live sample >40% of test voltage)
- Automatic discharge and display of discharge voltage
- Large backlight LCD dual-display with time, voltage and measurements shown
- Rugged, dual wall, water-resistant field case
- Designed and built to IEC safety standards
- EN 61010-1, 1000V CAT III

PRODUCT INCLUDES

Extra large classic tool bag, three color-coded leads, one blue jumper lead for use with guard terminal, three alligator clips (600V CAT IV), US 115V power cord, rechargeable battery pack and USB drive with user manual.



CATALOG NO.	DESCRIPTION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, 500V, 1000V, 2500V, 5000V, Auto DAR/PI)
Accessories/Replacement - available on website store from www.aemc.com	
2119.76	Lead - Set of 3, Color-coded 10ft 5kV Safety w/3 Color-coded Alligator Clips (1000V CAT IV) [15A] for use with Megohmmeter Models 5050/5060/5070/6505
2119.77	Lead - Replacement, Set of 3, Color-coded 6ft 5kV safety for Megohmmeter Model 6505
2119.85	Lead - Set of 3, Color-coded 10ft 5kV Safety with Integral Hippo Clips, and jumper lead for use with Megohmmeter Model 6505 (replacement for 5050/5060/5070)
2119.86	Lead - Set of 3, Color-coded 25ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 (Blue jumper lead not included)
2119.87	Lead - Set of 3, Color-coded 45ft 5kV Safety with Integral Hippo Clips for use with Megohmmeter Models 5050/5060/5070/6505 (Blue jumper lead not included)

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	0 to 500kΩ	0 to 100Ω	—	0 to 600V _{AC}	Hand-cranked	Analog	No
6503	2126.52	250V 500V 1000V	1 to 500MΩ 1 to 500MΩ 10 to 5000MΩ	—	—	—	0 to 600V _{AC}	Hand-cranked	Analog	No
6527	2126.53	250V 500V 1000V	1kΩ to 4GΩ 1kΩ to 4GΩ 1kΩ to 4GΩ	0.0 to 400.0kΩ	0.00 to 400Ω	—	0 to 600V _{AC} 0 to 1000V _{DC}	6 x AA Alkaline Batteries	Digital/ Analog	No
1026	2117.72	250V 500V 1000V	1kΩ to 4GΩ	4kΩ	0 to 40Ω	—	0 to 600V _{AC/DC}	8 x AA Alkaline Batteries	Digital/ Analog	No
6522	2155.51	250V 500V 1000V	50kΩ to 40GΩ	—	10Ω	—	700V _{AC/DC}	6 x AA Alkaline Batteries	Digital/ Analog	No
6524	2155.52	50V 100V 250V 500V 1000V	10kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	—	700V _{AC/DC}	6 x AA Alkaline Batteries	Digital/ Analog	No
6526	2155.53	50V 100V 250V 500V 1000V	10kΩ to 200GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10μF	700V _{AC/DC}	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6532	2155.54	50V 100V	10kΩ to 20GΩ	1000kΩ	10Ω, 100Ω	0.1n to 10μF	700V _{AC/DC}	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6534	2155.55	10V 25V 100V 250V 500V	2kΩ to 50GΩ	1000kΩ	10Ω, 100Ω	—	700V _{AC/DC}	6 x AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10V 100V	2kΩ to 20GΩ	1000kΩ	10Ω, 100Ω	—	700V _{AC/DC}	6 x AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57									
1050	2130.01	50V 100V 250V 500V 1000V	2kΩ to 200GΩ 4kΩ to 400GΩ 10kΩ to 1TΩ 20kΩ to 2TΩ 40kΩ to 4TΩ	0.01 to 400kΩ	0.01 to 39.99Ω	0.005 to 4.999μF	0 to 1000V _{AC/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	0.01 to 400kΩ	0.01 to 39.99Ω	0.005 to 4.999μF	0 to 1000V _{AC/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	2500V _{AC} 4000V _{DC}	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	2500V _{AC} 4000V _{DC}	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	2500V _{AC} 4000V _{DC}	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	2500V _{AC} 4000V _{DC}	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 9.999μF 10.00 to 19.99μF	0 to 2500V _{AC} 0 to 4000V _{DC}	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 9.999μF 10.00 to 19.99μF	0 to 2500V _{AC} 0 to 4000V _{DC}	Rechargeable NiMH Battery	Digital/ Analog	Yes