

MEGOHMMETERS

5000 V DIGITAL/ANALOG

MODEL 6505

Contributes to the safety of electrical installations and equipment

SPECIFICATIONS

MODEL	6505
INSULATION TESTS	
Test Voltage/Range	
500 V	10 kΩ to 2000 GΩ (2 TΩ)
1000 V	10 kΩ to 4000 GΩ (4 TΩ)
2500 V	10 kΩ to 10,000 GΩ (10 TΩ)
5000 V	10 kΩ to 10,000 GΩ (10 TΩ)
User Programmable Test	(40 to 1000) V: 10 V increments (1000 to 5100) V: 100 V increments
Short Circuit Current	< 1.6 mA ± 5 %
Accuracy	
10 kΩ to 399.9 GΩ	± 5 % of Reading ± 3 cts
400 GΩ to 10 TΩ	± 15 % of Reading ± 10 cts
DAR (1 min / 30 s)	0.02 to 50.00
PI (10 min / 1 min & User Programmable)	0.02 to 50.00
Capacitance Measurement	(0.001 to 49.99) μF; Max resolution 1 nF
Leakage Current Measurement	0.00 nA to 3 mA; Max resolution 1 pA
Programmable PI Ratio Times	(1 to 60) min
Discharge After Test	Yes, automatic
Discharge Voltage Display	Yes
Voltage Test / Safety Check	2500 V _{AC} / 4000 V _{DC} (16 to 42) Hz / 1 V Resolution
Voltage Warning Indicator	Yes > 25 V
Test Inhibition	> 40 % of test voltage
Guard Terminal	Yes
ELECTRICAL	
Power Supply	(1) 9.6 V NiMH battery pack (included); Line power: (85 to 256) V _{AC} (50/60) Hz
SAFETY	
Safety Rating	EN 61010-1, 1000 V CAT III

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ACCESSORIES/REPLACEMENTS

CATALOG #2133.73 Extra Large Tool Bag

CATALOG #2960.21 9.6 V rechargeable NiMH battery pack

CATALOG #2151.30 Lead – Replacement set of (3), 10 ft (5 kV) color-coded safety with clips (Jumper lead not included).

CATALOG #2151.31 Lead – Replacement 1 ft jumper lead (blue)

CATALOG #2151.32 Lead – Set of (3), 25 ft (5 kV) safety with clips

CATALOG #2119.84 Fuse – Set of (3), 0.1 A, 380 V, 5 x 20, 10 kA

CATALOG #5000.14 Power Cord 115 V US Plug



FEATURES

- True Megohmmeter®
- Simple operation
- Test voltage selections of (500, 1000, 2500 and 5000) V
- Insulation measurements from 10 kΩ to 10,000 GΩ (10 TΩ)
- Adjustable and programmable test voltage (40 to 5100) V
- Automatic calculation of DAR and PI values
- Direct measurement and display of capacitance and leakage current
- Display resistance, test voltage and run time
- Programmable 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

PRODUCT INCLUDES

Extra large classic tool bag, set of (3) 10 ft color-coded (red/black/blue) leads with clips (5000 V) (red/black/blue), (1) blue guard terminal jumper lead, fuse 0.1 A 380 V, rechargeable battery pack (installed), US 115 V power cord, and user manual.



CATALOG NO.	DESCRIPTION
2130.18	Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, 500 V, 1000 V, 2500 V, 5000 V, Auto DAR/PI)

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 VAC	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 VAC/DC	(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 VAC 1000 VDC	(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 VAC 700 VAC/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 Ω, 100 Ω	0.1 n to 10 μF	700 VAC/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 Ω, 100 Ω	—	700 VAC/DC	(6) AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10 V 100 V	2 kΩ to 20 GΩ	1000 kΩ	10 Ω, 100 Ω	—	700 VAC/DC	(6) AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57	(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 VAC/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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	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 VAC 4000 VDC	Rechargeable NiMH Battery	Digital/ Analog	Yes

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