

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 1000 V 2500 V 5000 V	10 kΩ to 2000 GΩ (2 TΩ) 10 kΩ to 4000 GΩ (4 TΩ) 10 kΩ to 10,000 GΩ (10 TΩ) 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 400 GΩ to 10 TΩ	± 5 % of Reading ± 3 cts ± 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 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 1 kΩ to 4 GΩ 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 Ω, 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 Ω, 100 Ω	-	700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital/ Analog	Yes
6536	2155.56	10 V	10 V	1000 kΩ	10 Ω, 100 Ω	-	700 V _{AC/DC}	(6) AA Alkaline Batteries	Digital/ Analog	No
6536 ESD Floor Kit	2155.57	100 V (variable in 1 V steps)	2 kΩ to 20 GΩ							
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
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 V _{AC} 4000 V _{DC}	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 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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