

# MEGOHMMETERS

## 5000 V DIGITAL/ANALOG

600 V  
CAT III

### MODEL 6505

*Contributes to the safety of electrical installations and equipment*



**TRUE MegOhmmeter®**

### 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 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.



CAT. #

DESCRIPTION

2130.18

Megohmmeter Model 6505 (Digital, with Analog Bargraph, Backlight, (500, 1000, 2500, 5000) V, Auto DAR/PI)

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

Consult factory for NIST Calibration prices.

### ACCESSORIES/REPLACEMENTS

**CAT. #2133.73** Extra Large Tool Bag

**CAT. #2960.21** 9.6 V rechargeable NiMH battery pack

**CAT. #2151.30** Lead – Replacement Set of 3, 10 ft 5kV w/ integral clips

**CAT. #2151.31** Lead-Replacement 1 ft 5kV blue jumper lead

**CAT. #2151.32** Lead – Set of 3, 25 ft 5kV w/ integral Clips

**CAT. #2151.33** Lead – Set of (3), 45 ft (5 kV) w/ integral clips

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

**CAT. #5000.14** Power Cord 115 V US Plug

# 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 <sub>AC</sub>	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 <sub>AC/DC</sub>	(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 <sub>AC</sub> 1000 V <sub>DC</sub>	(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 <sub>AC</sub> 700 V <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	(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 <sub>AC/DC</sub>	(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 V <sub>AC/DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	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 <sub>AC</sub> 4000 V <sub>DC</sub>	Rechargeable NiMH Battery	Digital / Analog	Yes

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