MEGOHMMETERS
5000 V GRAPHICAL



MODEL 5070

Offers real-time graphic plot of measurements and digital presentation of test results

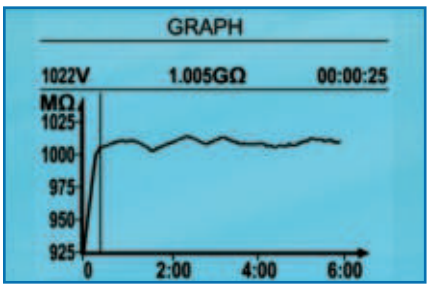
SPECIFICATIONS

MODEL	5070
INSULATION TESTS	
Test Voltage **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 Selectable Test Voltage	Programmable: (40 to 1000) V: 10 V increments; (1000 to 5100) V: 100 V increments
Automatic Step Voltage	Programmable step voltage and duration up to five steps. Three profiles can be stored.
Accuracy **10 kΩ to 99.9 GΩ** **400 GΩ to 10 TΩ**	 ± 5 % of Reading ± 3 cts ± 15 % of Reading ± 10 cts
Voltage Test/Safety Check	2500 VAC/4000 VDC
Voltage Warning Indicator	Yes > 25 V
Test Inhibition	Yes — selectable at (3, 10, or 20) % of test voltage
Smooth Function (user selectable)	Digital filtering stabilizes display readings
COMMUNICATION	
Storage of Readings Over Time R(t)	128 kB memory
Storage of Test Results	Stores over 1500 test results
Communication Port	Serial and RS-232 to USB adapter (included)
PC Software/ Report Generation	DataView® (included)
ELECTRICAL	
Power Supply	(1) 9.6 V NiMH battery pack (included) Line power: (85 to 256) V (50/60) Hz
SAFETY	
Safety Rating	EN 61010-1, 1000 V CAT III

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FEATURES

- True Megohmmeter®
- Test voltage selections of (500, 1000, 2500, and 5000) V
- Insulation measurements from 10 kΩ to 10,000 GΩ (10 TΩ)
- Selectable and programmable test voltage (40 to 5100) V
- Automatic calculation of DAR, PI and DD ratios
- Calculations of Step Voltage through front panel
- Direct measurement and display of capacitance and leakage current
- Display resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Smooth and Alarm functions
- Automatic test inhibition (if live sample > (3, 10, or 20) % of test voltage)
- Automatic discharge and display of discharge voltage
- Graphic and digital display of test voltage, resistance and more
- Bright blue electroluminescent backlight
- Programmable temperature compensation
- Programmable test voltage lock-out
- Programmable alarm setting
- Auto Power OFF when not in use
- AC or DC powered with rechargeable NiMH battery pack - run while charging
- Rugged, water-resistant field case
- Includes DataView® software for data retrieval, real-time display, analysis and report generation



With the push of a button: Insulation Resistance measurement is graphically displayed at the completion of the test.

ACCESSORIES/REPLACEMENTS

CATALOG #2119.45 PC RS-232 DB9 F/F 6 ft Null Modem Cable *(5060 & 5070)*

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

CATALOG #2140.46 Cable - 5 ft USB A-B Cable

CATALOG #2133.73 Extra large classic tool bag (18 x 9 x 12) in

CATALOG #2135.43 Inverter – 12 VDC to 120 VAC 200 Watt for Vehicle use

CATALOG #2136.80 Cable – 10 ft USB Cable

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 #2960.21 Battery – Rechargeable 9.6 V

CATALOG #5000.14 US 115 V Power Cord

CATALOG NO.	DESCRIPTION
2130.30	Megohmmeter Model 5070 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500 V, 1000 V, 2500 V, 5000 V, Step V, Auto DAR/PI/DD, USB with DataView® software)

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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 (variable in 1 V steps)	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									
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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