



## Megohmmeter Model 5070

Cat. #2130.30

**Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500 V, 1000 V, 2500 V, 5000 V, Ramp, Auto DAR/PI/DD, USB w/DataView® Software**

Fully automated 5000V graphical insulation tester. Selectable and programmable test voltage (40 to 5100) V. Programmable temperature correction of resistance readings. Allows programming up to three step voltage profiles, each containing up to five steps. USB allows connection to a computer running DataView® for configuring the instrument and downloading test results and generating reports.

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AC/DC Voltage Measurement	
Range	(1 to 4000) V
Accuracy	(1 to 99.9) V: $\pm(1\% R + 5 \text{ ct})$ (100 to 4000) V: $\pm(1\% R + 3 \text{ ct})$
Resolution	(1 to 99.9) V: 0.1 V (100 to 999) V: 1 V (1000 to 4000) V: 2 V
Frequency Range	(1 to 2500) V: DC or (15 to 500) Hz (2501 to 4000) V: DC
Input Impedance	750 k $\Omega$ or 3 M $\Omega$ (range dependent)
Insulation Measurement	
Test Voltage / Resistance Range	500 V: 10 k $\Omega$ to 2 T $\Omega$ (2000 G $\Omega$ ) 1000 V: 10 k $\Omega$ to 4 T $\Omega$ (4000 G $\Omega$ ) 2500 V: 10 k $\Omega$ to 10 T $\Omega$ (10,000 G $\Omega$ ) 5000 V: 10 k $\Omega$ to 10 T $\Omega$ (10,000 G $\Omega$ )
Measurement Accuracy	30 k $\Omega$ to 39.99 G $\Omega$ : $\pm(5\% R + 3 \text{ ct})$ 40.0 G $\Omega$ 10 T $\Omega$ : $\pm(15\% R + 10 \text{ ct})$
Variable Voltage	(40 to 5000) V
Auto Discharge	Discharge time < 7 s / $\mu\text{F}$ from $V_{\text{test}}$ to 25 V @ 5000 V
Live Circuit Indicator	Test inhibition if terminal voltage > (3, 10, 20) % (selectable by user) of test voltage
General Features	
Programmable Alarm	Yes
DAR – PI – DD – R(t)	Yes

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • [www.aemc.com](http://www.aemc.com)  
[customerservice@aemc.com](mailto:customerservice@aemc.com) • [techsupport@aemc.com](mailto:techsupport@aemc.com)

<b>Ramp Mode</b>	No
<b>Step Mode</b>	Up to 5 steps (voltage and duration configurable for each step)
<b>Capacitance Measurement</b>	(0.005 to 49.99) $\mu\text{f}$
<b>Leakage Current Measurement</b>	(0 to 3) mA
<b>Open Circuit Voltage</b>	$\leq 1.1 \times V_n \pm 2 \text{ V}$ ( $V_n \pm 2 \%$ in variable mode)
<b>Memory</b>	128 kB Memory / Stores over 1500 test results
<b>Communication</b>	USB port
<b>Software</b>	DataView Software (included)
<b>Power Supply</b>	Rechargeable NIMH battery pack; external (85-256) V, 50/60 Hz
<b>Battery Life</b>	$\geq 1500$ tests at 5000 V into 5 M $\Omega$ with a duty cycle of 5 s on and 25 s off
<b>Charging Time</b>	6 h approximately (charging allowed during tests)
<b>Dimensions</b>	(10.63 x 9.84 x 7.09) in (270 x 250 x 180) mm
<b>Weight</b>	9.5 lbs (4.3 kg)
<b>Altitude Operating</b>	6562 ft (2000 m)
<b>Operating Temperature</b>	(14 to 131) $^{\circ}\text{F}$ (-10 to 55) $^{\circ}\text{C} \leq 80 \%$ RH
<b>Storage Temperature</b>	(-40 to 158) $^{\circ}\text{F}$ (-40 to 70) $^{\circ}\text{C} \leq 90 \%$ RH
<b>IP Rating</b>	IP 53
<b>Safety Compliance</b>	IEC/EN 61010-2-030, or BS EN 61010-2-030, IEC/EN 61557 1000 V CAT III, Pollution Degree 2, Double Insulation CE

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