



Megohmmeter Model 5050

Cat. #2130.20

Digital, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 5000V, Auto DAR/PI/DD

Displays test voltage, insulation resistance, and leakage current during the test; and capacitance and discharge voltage present at the test leads at the conclusion of the test. Features include automatic calculation and presentation of the Dielectric Absorption Ratio (DAR) and Polarization Index (PI).


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AC/DC Voltage Measurement	
Range	1 to 4000V
Accuracy	1 to 99.9V: $\pm(1\% R + 5ct)$ 100 to 4000V: $\pm(1\% R + 3ct)$
Resolution	1 to 99.9V: 0.1V 100 to 999V: 1V 1000 to 4000V: 2V
Frequency Range	1 to 2500V: DC or 15 to 500Hz 2501 to 4000V: DC
Input Impedance	750k Ω or 3M Ω (range dependent)
Insulation Measurement	
Test Voltage / Resistance Range	500V: 30k Ω to 2T Ω 1000V: 100k Ω to 4T Ω 2500V: 100k Ω to 10T Ω 5000V: 300k Ω to 10T Ω
Measurement Accuracy	30k Ω to 39.99G Ω : $\pm(5\% R + 3ct)$ 40.0G Ω 10T Ω : $\pm(15\% R + 10ct)$
Variable Voltage	40 to 5,100V
Auto Discharge	Discharge time < 7s/ μ F from Vtest to 25V @ 5000V
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	Yes
Ramp Mode	No

For more details, download the datasheet or user manual at www.aemc.com

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Step Mode	No
Capacitance Measurement	0.005 to 49.99 μ f
Leakage Current Measurement	0 to 3mA
Open Circuit Voltage	$\leq 1.1 \times V_n \pm 2V$ ($V_n \pm 2\%$ in variable mode)
Memory	4kB Memory / Stores 20 test results
Power Supply	Rechargeable NIMH battery pack; external 85-256V, 50/60Hz
Battery Life	≥ 1500 tests at 5000V into 5M Ω with a duty cycle of 5 seconds on and 25 seconds off
Charging Time	6 hours approximately (charging allowed during tests)
Dimensions	10.63 x 9.84 x 7.09" (270 x 250 x 180mm)
Weight	9.5 lbs (4.3kg)
Altitude Operating	6562' (2000m)
Operating Temperature	14° to +131°F (-10° to +55°C) $\leq 80\%$ RH
Storage Temperature	-40° to +158°F (-40° to +70°C) $\leq 90\%$ RH
IP Rating	IP 53
Safety Compliance	EN 61010-1, EN 61557, 1000V CAT III, Pollution Degree 2 

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