



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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