



Megohmmeter Model 1050

Cat. #2130.01

Alarm, Timer, 50V, 100V, 250V, 500V, 1000V, Auto DAR/PI, Resistance, Continuity

Measures insulation resistance using test voltage combinations of 50V, 100V, 250V, 500V and 1000V. Measurements are displayed on a large dual-display LCD with bargraph for quick viewing of changes or trends. Automatically provides DAR and PI ratios directly on the display; user defined PI time intervals can also be programmed. Automatic test inhibitor prevents testing on live circuits above 25V. Memory feature enables storage, recall, and display of resistance values taken at user specified intervals during a test.

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AC/DC Voltage Measurement	
Range	1 to 1000V
Accuracy	$\pm(1\% R + 3V)$
Resolution	1 to 99.9V: 0.1V 100 to 1000V: 1V
Frequency Range	DC and 16 to 65Hz
Input Impedance	750k Ω approx.
Insulation Measurement	
Test Voltage / Resistance Range	50V: 2k Ω to 200G Ω 100V: 4k Ω to 400G Ω 250V: 10k Ω to 1T Ω 500V: 20k Ω to 2T Ω 1000V: 40k Ω to 4T Ω
Measurement Accuracy	2k Ω to 39.99G Ω : $\pm(5\%R + 3ct)$ 40.0G Ω 4T Ω : $\pm(15\%R + 10ct)$
Auto Discharge	Discharge time < 2s/ μ F from Vtest to 25V
Live Circuit Indicator	Inhibit test if terminal voltage > 25V prior to initialization of test
Resistance Measurement	
Range	0.01 Ω to 399.9k Ω

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

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Accuracy	± (3%R + 3ct) at >4kΩ
Open Circuit Voltage	Approximately 12.4V DC
Short Circuit Current	<6mA DC
Continuity Measurement	
Range	0.01 to 39.99Ω
Accuracy	± (3%R + 4ct) with lead compensation
Open Circuit Voltage	12.4V DC
Short Circuit Current	≥ 200mA DC from 0.01 to 20.00Ω
General Features	
Programmable Alarm	Yes
DAR – PI	Yes
Ramp Mode	No
Step Mode	No
Capacitance Measurement	0.05nf to 4.999µf, Accuracy: ± (10%R + 1ct)
Memory	20 Readings
Power Supply	Eight 1.5V C cell batteries (included)
Battery Life	≥ 21000 IR tests at 1000V into 1MΩ with a duty cycle of 5s on and 20s off; ≥ 16,000 R tests of 1Ω with a duty cycle of 5s on and 20s off
Charging Time	4.5 hours approximately
Dimensions	9.45 x 7.28 x 4.33" (240 x 185 x 110mm)
Weight	7.5 lbs (3.4kg)
Altitude Operating	6562' (2000m)
Operating Temperature	14° to +131°F (-10° to +55°C) ≤80% RH
Storage Temperature	-40° to +158°F (-40° to +70°C) ≤90% RH
IP Rating	IP 54
Safety Compliance	EN 61010-1, EN 61557, 600V CAT III, Pollution Degree 2



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