



## Ground Resistance Tester Model 6471

Cat. #2135.48

**Range 0.01 to 99,000Ω, Resolution 0.001 to 10Ω, Measures grounding resistance, earth coupling, soil resistivity, and bonding**

The Digital Ground Resistance Tester Model 6471 performs grounding resistance, earth coupling measurement, soil resistivity and bonding/connection tests. Measures from 0.01 to 99,000Ω, and is auto-ranging (automatically seeks out optimum measurement range). Up to 512 test results can be stored in internal memory for later recall to the display or download to a computer running DataView (free) for analysis and report generation.

Also available in complete Kits (300ft and 500ft).

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4-Point Earth Resistance Measurement	
Range (Auto-Ranging)	0.01 Ω to 99.99 kΩ
Resolution	(0.001 to 10) Ω
Accuracy	±(2 % Reading +1 ct)
Test Voltage	(16 or 32) V; (41 to 513) Hz
Test Current	Up to 250 mA
Selective 4-Pole (with optional probes MN82 or SR182)	
Same characteristics as with 4-point earth resistance measurement	
3-Point Earth Resistance Measurement	
Range (Auto-Ranging)	0.09 Ω to 99.9 kΩ
Resolution	(0.01 to 100) Ω
Accuracy	±(2 % Reading +1 ct)
Test Voltage	(16 or 32) V; (41 to 513) Hz
Test Current	Up to 250 mA
Soil Resistivity 4-Point Measurement	
Test method	Wenner or Schlumberger selectable with automatic calculation
Range (Auto-Ranging)	0.01 Ω to 99.9 kΩ; ρ max: 999 kΩm

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

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Resolution	(0.01 to 100) $\Omega$
Accuracy (Typical)	$\pm(2\%$ Reading +1 ct)
Test Voltage	(16 or 32) V; (41 to 128) Hz selectable
<b>2 Clamp Ground Measurement (with optional probes MN82 or SR182)</b>	
Range (Auto-Ranging)	(0.1 to 500) $\Omega$
Resolution	(0.01 to 1) $\Omega$
Measurement Frequency	Auto: 1611 Hz; Manual: 128 Hz-1367 Hz-1611 Hz-1758 Hz
<b>DC Resistance Measurement (Bond Testing) 2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing)</b>	
Range (Auto-Ranging)	2-pole: 0.12 $\Omega$ to 99.9 k $\Omega$ 4-pole: 0.020 $\Omega$ to 99.99 k $\Omega$
Resolution	2 -pole: (0.01 to 100) $\Omega$ 4-pole: (0.001 to 10) $\Omega$
Accuracy (Typical)	$\pm(2\%$ Reading +2 ct)
Test Voltage	16 V DC; (+, - or auto polarity)
Test Current	Up to 250 mA
<b>Current Measurement (with optional probes MN82 or SR182)</b>	
Range	0.01 mA to 40 A, (16 to 400) Hz
Accuracy (Typical)	$\pm(3\%$ Reading +2 ct) typical
<b>External Voltage Measurement</b>	
Range	(0.1 to 65) V AC/DC – DC, (15 to 440) Hz
Accuracy	$\pm(2\%$ Reading +1 ct)
<b>General Features</b>	
Memory	512 measurements (64 KB)
Communication	USB 2.0 optically isolated, DataView software included
Power Source	9.6 V rechargeable battery pack with external 110/220 V charger
Battery Life	1500 tests typical in automatic mode
Dimensions	(10.7 x 9.80 x 5.12) in (272 x 248 x 130) mm
Weight	7 lb (3.2 kg) with battery
Case	UL V0 Polypropylene
Operating Temperature	(32 to 113) $^{\circ}\text{F}$ (0 to +5) $^{\circ}\text{C}$
Storage Temperature	(-40 to 158) $^{\circ}\text{F}$ (-40 to 70) $^{\circ}\text{C}$
Relative Humidity	Up to 90 % RH
Ingress Protection (IP)	IP 53 with cover closed
EMC	EN 61326-1
Safety Compliance	IEC 61010-1, EN 61557, 50 V CAT IV, Pollution Degree 2



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