



Ground Resistance Tester Model 6471

Cat. #2135.48

Range (0.01 to 99,000) Ω and is auto-ranging, Resolution (0.001 to 10) Ω , Measures grounding resistance, earth coupling, soil resistivity, and bonding

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 k Ω
Resolution	(0.001 to 10) Ω
Accuracy	$\pm(2\%$ 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 k Ω
Resolution	(0.01 to 100) Ω
Accuracy	$\pm(2\%$ 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 k Ω ; ρ max: 999 k Ω m
Resolution	(0.01 to 100) Ω
Accuracy (Typical)	$\pm(2\%$ Reading +1 ct)
Test Voltage	(16 or 32) V; (41 to 128) Hz selectable
2 Clamp Ground Measurement (with optional probes MN82 or SR182)	
Range (Auto-Ranging)	(0.1 to 500) Ω

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

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Resolution	(0.01 to 1) Ω
Measurement Frequency	Auto: 1611 Hz; Manual: 128 Hz-1367 Hz-1611 Hz-1758 Hz
DC Resistance Measurement (Bond Testing) 2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing)	
Range (Auto-Ranging)	2-pole: 0.12 Ω to 99.9 k Ω 4-pole: 0.020 Ω to 99.99 k Ω
Resolution	2 -pole: (0.01 to 100) Ω 4-pole: (0.001 to 10) Ω
Accuracy (Typical)	\pm (2 % Reading +2 ct)
Test Voltage	16 V DC; (+, - or auto polarity)
Test Current	Up to 250 mA
Current Measurement (with optional probes MN82 or SR182)	
Range	0.01 mA to 40 A, (16 to 400) Hz
Accuracy (Typical)	\pm (3 % Reading +2 ct) typical
External Voltage Measurement	
Range	(0.1 to 65) V AC/DC – DC, (15 to 440) Hz
Accuracy	\pm (2 % Reading +1 ct)
General Features	
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) $^{\circ}$ F (0 to +5) $^{\circ}$ C
Storage Temperature	(-40 to 158) $^{\circ}$ F (-40 to 70) $^{\circ}$ 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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