

AEMC 6471 Ground Resistance Tester

SPECIFICATIONS

4-Point Earth Resistance Measurement	
Range (Auto-Ranging)	0.01Ω to 99.99kΩ
Resolution	0.001 to 10Ω
Accuracy	±(2% Reading +1ct)
Test Voltage	16 or 32V; 41 to 513Hz
Test Current	Up to 250mA
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)	0.09Ω to 99.9kΩ
Resolution	0.01 to 100Ω
Accuracy	±(2% Reading +1ct)
Test Voltage	16 or 32V; 41 to 513Hz
Test Current	Up to 250mA
Soil Resistivity 4-Point Measurement	
Test method	Wenner or Schlumberger selectable with automatic calculation
Range (Auto-Ranging)	0.01Ω to 99.9kΩ; ρ max: 999kΩm
Resolution	0.01 to 100Ω
Accuracy (Typical)	±(2% Reading +1ct)
Test Voltage	16 or 32V; 41 to 128Hz selectable
2 Clamp Ground Measurement (with optional probes MN82 or SR182)	
Range (Auto-Ranging)	0.1 to 500Ω
Resolution	0.01 to 1Ω
Measurement Frequency	Auto: 1611Hz; Manual: 128Hz-1367Hz-1611Hz-1758Hz
DC Resistance Measurement (Bond Testing) 2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing)	
Range (Auto-Ranging)	2-pole: 0.12Ω to 99.9kΩ 4-pole: 0.020Ω to 99.99kΩ
Resolution	2 -pole: 0.01 to 100Ω 4-pole: 0.001 to 10Ω
Accuracy (Typical)	±(2% Reading +2ct)
Test Voltage	16V DC; (+, - or auto polarity)
Test Current	Up to 250mA
Current Measurement (with optional probes MN82 or SR182)	

AEMC 6471 Ground Resistance Tester SPECIFICATIONS

Range	0.01mA to 40A, 16 to 400Hz
Accuracy (Typical)	±(3% Reading +2ct) typical
External Voltage Measurement	
Range	0.1 to 65V AC/DC – DC, 15 to 440Hz
Accuracy	±(2% Reading +1ct)
General Features	
Memory	512 measurements (64KB)
Communication	USB 2.0 optically isolated, DataView software included
Power Source	9.6V rechargeable battery pack with external 110/220V charger
Battery Life	1500 tests typical in automatic mode
Dimensions	10.7 x 9.80 x 5.12" (272 x 248 x 130mm)
Weight	7lbs (3.2kg) with battery
Case	UL V0 Polypropylene
Operating Temperature	32° to +113°F (0° to +45°C)
Storage Temperature	-40° to 158°F (-40° to +70°C)
Relative Humidity	Up to 90%
Ingress Protection (IP)	IP 53 with cover closed
EMC	EN 61326-1
Safety Compliance	IEC 61010-1, EN 61557, 50V CAT IV, Pollution Degree 2