



Ground Resistance Tester Model 6472

Cat. #2135.51

4-Point soil resistivity (Wenner or Schlumberger), 2- and 4-Wire bond testing, ground resistance testing, optically isolated USB communication

The Digital Ground Resistance Tester Model 6472 performs bond resistance, ground resistance, soil resistivity, earth coupling, and Step & Touch potential tests. When used in combination with the GroundFlex Adapter Model 6474 (factory supplied product only), Power Transmission Tower and Tower Leg Ground Resistance testing is also available. 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.

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4-Point Earth Resistance Measurement

Range (Auto-Ranging)	0.011 Ω to 99.99 k Ω
Resolution	(0.001 to 10) Ω
Accuracy	$\pm(2\% \text{ Reading} + 1 \text{ ct})$
Test Voltage	(10, 16, 32, or 60) V; (41 to 5078) 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	$\pm(2\% \text{ Reading} + 1 \text{ ct})$
Test Voltage	(10, 16, 32, or 60) V; (41 to 5078) 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 to 99.9) k Ω ; ρ max: 999 k Ω m
Resolution	(0.01 to 100) Ω
Accuracy (Typical)	$\pm(2\% \text{ Reading} + 1 \text{ ct})$

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


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Test Voltage	(10, 16, 32, or 60) V; (41 to 128) Hz selectable
Earth/Ground Potential Measurement V Pot	
Range (Auto-Ranging)	0.01 mV to 65.00 V
Resolution	(0.01 to 10) mV
Accuracy (Typical)	$\pm(5\% \text{ Reading} + 1 \text{ ct})$
Test Voltage	(10, 16, 32, or 60) V; (41 to 5078) Hz
2 Clamp Ground Measurement (with optional probes MN82 or SR182)	
Range (Auto-Ranging)(0.1 to 500) Ω
Resolution	(0.01 to 1) Ω
Measurement Frequency	Auto: 1611 Hz; Manual: (128, 367, 1611, or 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)	$\pm(2\% \text{ Reading} + 2 \text{ ct})$
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)	$\pm(3\% \text{ Reading} + 2 \text{ ct})$ typical
External Voltage Measurement	
Range	(0.1 to 65) V AC/DC – DC, (15 to 440) Hz
Accuracy	$\pm(2\% \text{ Reading} + 1 \text{ ct})$
General Features	
Pylon Ground Testing	Available by connecting AEMC Model 6474 and a set of GroundFlex sensors
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) °F (0 to 45) °C

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Storage Temperature	(-40 to 158) °F (-40 to 70) °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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