GROUND RESISTANCE TESTERS MULTIFUNCTION

MODEL 6472

IP 53 cover closed | 50 V CAT IV | CE | ⧈

Advanced ground resistance tester for the most complex grounding systems.



AUTOMATIC REPORT GENERATION
DataView®



The Model 6472 provides an automated way to measure the value of the earth/ground using the Fall-of-Potential method and storing measurements.

PRODUCT INCLUDES

CAT. #2135.51 GROUND RESISTANCE TESTER MODEL 6472 ***(NO PROBES)***
CAT. #2135.53 GROUND RESISTANCE TESTER MODEL 6472 ***(300 FT KIT)***
CAT. #2135.54 GROUND RESISTANCE TESTER MODEL 6472 ***(500 FT KIT)***

Carrying bag, power adapter with US power cord, optical USB cable, rechargeable battery, and a USB drive with DataView® software, ground tester workbook and user manual.

KIT SHOWN

6472 METER
300 ft Kit: CAT. #2135.53
500 ft Kit: CAT. #2135.54 *(shown)*

Refer to page 125 for Model 6472 Kit descriptions
CAT. #2135.35, #2135.36 and #2135.37



MODEL	6472
TEST METHODS	
Resistance-to-Ground	
3-Pole Fall-of-Potential	Yes
4-Pole Fall-of-Potential	Yes
Selective Fall-of-Potential [1]	Yes
Clamp-On [2]	Yes
Soil Resistivity	
Wenner Method	Yes
Schlumberger Method	Yes
Other Measurements	
Step & Touch Potential	Yes
2-Pole Continuity, Point-to-Point	Yes
4-Pole Continuity, Point-to-Point	Yes
ELECTRICAL	
Test Voltage	(10, 16, 32 or 60) V
Maximum Test Current	250 mA
Test Frequencies	(41 to 5078) Hz automatic, SWEEP, or user defined
3-Pole Ω Range	0.09 Ω to 99.9 kΩ
3-Pole Typical Accuracy	± 2 %
2-Pole mΩ Range	0.12 Ω to 99.9 kΩ
2-Pole Typical Accuracy	± 2 %
4-Pole Ω Range	0.09 Ω to 99.9 kΩ
4-Pole Typical Accuracy	± 2 %
Clamp-On Ω Range	(.1 to 500) Ω
Clamp-On Typical Accuracy	± 10 %
MEASUREMENT VALUES & ALARMS	
Measurements	Ω, V, I, Hz
Calculations	Rho - ρ (Ω -m), earth coupling
Audible Alarms	Yes
DATA STORAGE & REPORTING	
Communication - USB	Yes
DataView® Reporting	Yes
Onboard Measurement Storage	512 Measurements
GENERAL	
Display	Multi-parameter backlit LCD
Power Supply	Rechargeable NiMH pack
Power Source	18 VDC Power Adapter
Battery Life	>1500 Measurements
SAFETY & ENVIRONMENT	
CAT Rating	CAT IV 50 V
IP Rating	IP53

Consult factory for NIST Calibration prices.

[1] A resistance-to-ground measurement for electrodes that cannot be isolated, requires one accessory clamp

[2] With optional accessory clamps (SR182 & MN82)

Includes FREE DataView® software for configuring, data retrieval, real-time display, analysis and report generation

See pages 130 to 133 for Accessories/Replacements

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GROUND RESISTANCE TESTERS MULTIFUNCTION

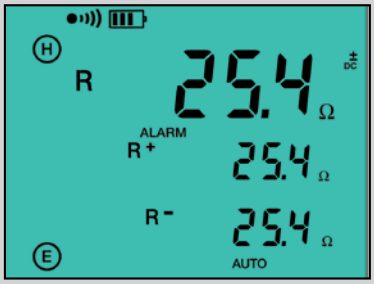
MODELS 6471 & 6472

FEATURES

- Advanced Ground Resistance Testers designed for two-clamp resistance-to-ground testing, Fall-of-Potential measurements, soil resistivity testing, and continuity testing
- Rugged, dust proof, and water-resistant field enclosure *(IP53, closed position)* for reliable operation in harsh outdoor environments
- Large backlit display with automatic illumination provides clear visibility during setup and measurement in all lighting conditions
- Color-coded terminals with automatic recognition of electrode connections and displayed test electrode resistance values reduce setup errors and improve test efficiency
- Supports two-clamp *(clamp-on method)* ground resistance testing without auxiliary rods, enabling fast measurements on bonded grounding systems
- Manual and automatic frequency sweep testing from (41 to 5078) Hz *(model dependent)* optimizes measurement stability across a wide range of site conditions
- Selectable test voltages of (10, 16, 32, or 60) V *(model dependent)* with output current up to 250 mA for demanding field conditions
- Stores up to 512 complete test results in internal memory
- Includes an optically isolated USB connection for enhanced safety
- Includes DataView® software for configuration, data retrieval, real-time display, analysis, and report generation
- Fully charged NiMH batteries power over 1000 tests on a single charge, Instrument operates while recharging
- Automatic power-off function conserves battery life
- CAT IV with fuse protection for operator safety

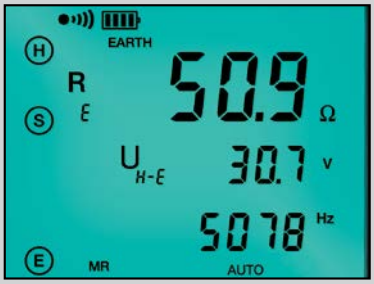
LARGE FUNCTIONAL DISPLAYS

POINT-TO-POINT (M OHM)



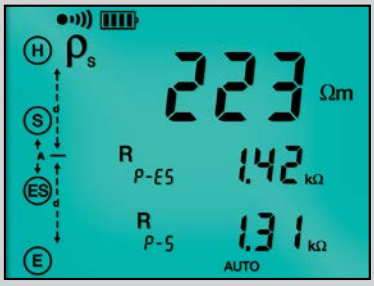
The 4-Point test shows lead connections, Continuity test results, test voltage and current.

3-POINT FALL-OF-POTENTIAL TEST



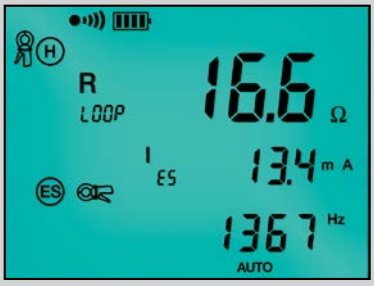
The 3-Point Fall-of-Potential test displays test lead connection, grounding rod resistance and test electrode resistances.

SOIL RESISTIVITY - SCHLUMBERGER



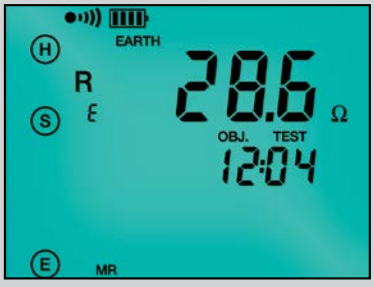
Displays resistance measurement, Resistivity (ρ) in (Ω-m) and test electrode spacing.

2-CLAMP TEST



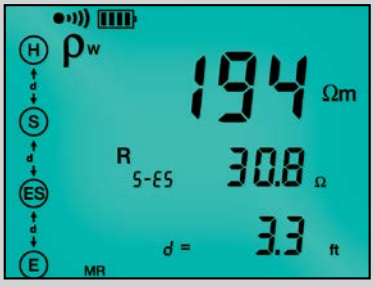
The 2-Clamp method displays clamp connection resistance, test current and frequency.

DATA STORAGE



Memory Recall displays test results stored at a specific memory location.

SOIL RESISTIVITY - WENNER



Displays resistance measurement, Resistivity (ρ) in (Ω-m) and test electrode spacing.

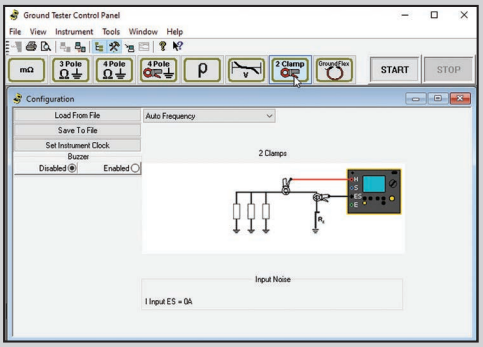
CAT. #	DESCRIPTION
2135.48	Ground Resistance Tester Model 6471 (Digital, 3-Point, 4-Point, Clamp-on (SR182 probes not included), DataView® Software)
2135.49	Ground Resistance Tester Model 6471 (Digital, 3-Point, 4-Point, Clamp-on, (includes 2-SR182 probes), DataView® Software)
2135.50	Ground Resistance Tester Model 6471 Kit – 300 ft (CAT. #2135.49 and CAT. #2135.36)
2135.51	Ground Resistance Tester Model 6472 (Digital, 2-Point, 3-Point, 4-Point, Bond Test, DataView® software)
2135.53	Ground Resistance Tester Model 6472 Kit – 300 ft (CAT. #2135.51 and CAT. #2135.36)
2135.54	Ground Resistance Tester Model 6472 Kit – 500 ft (CAT. #2135.51 and CAT. #2135.37)
2135.60	Ground Resistance Tester Model 6471 Kit – 300 ft w/o Probes (CAT. #2135.48 and CAT. #2135.36)
2135.61	Ground Resistance Tester Model 6471 Kit – 500 ft w/o Probes (CAT. #2135.48 and CAT. #2135.37)

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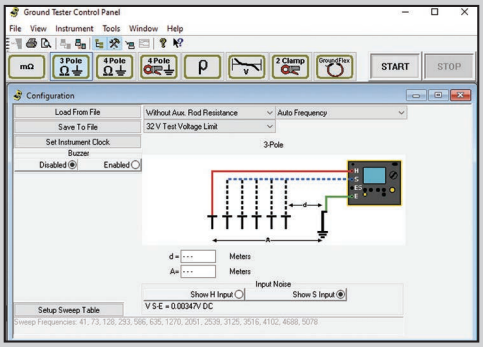
MODEL 6471 & 6472

GROUND TESTERS MODELS 6471 & 6472 — *TYPICAL DATAVIEW® FUNCTIONAL DISPLAYS*

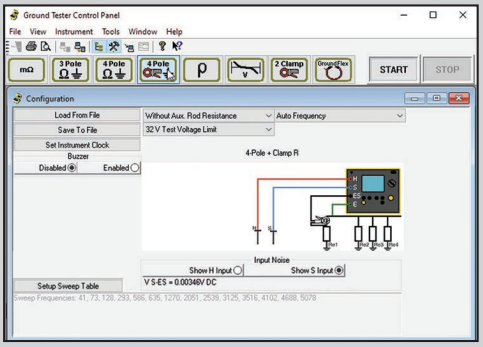
2-CLAMP METHOD SETUP



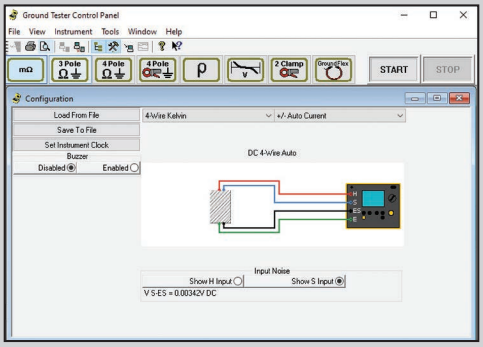
FALL-OF-POTENTIAL, STEP-TOUCH POTENTIAL



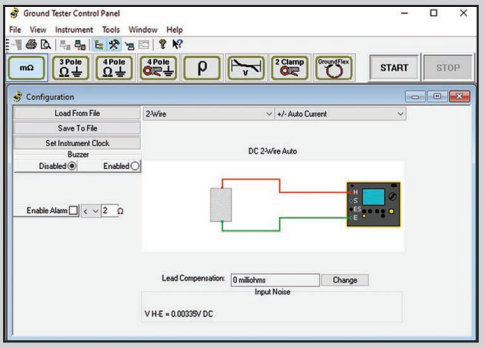
SELECTIVE 3-POINT TESTING OF INDIVIDUAL RODS



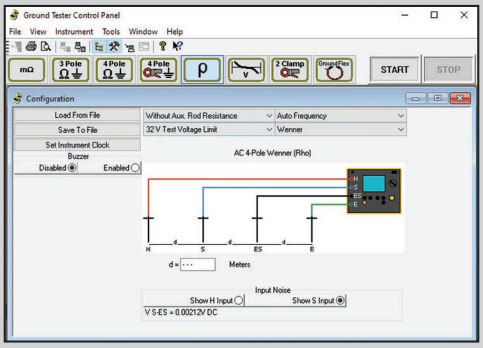
4-POINT-RESISTANCE



2-POINT-RESISTANCE



SOIL RESISTIVITY



OPTIONAL KITS



150 FT KIT
CAT. #2135.35
Test Kit for 3-Point testing includes carrying bag, (2) 150 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (1) 30 ft lead *(green)*, (2) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.



300 FT KIT
CAT. #2135.36
Test Kit for 4-Point testing includes carrying bag, (2) 300 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (2) 100 ft hand-tied color-coded leads *(green/black)*, (4) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.



500 FT KIT
CAT. #2135.37
Test Kit for 4-Point testing includes carrying bag, (2) 500 ft color-coded *(red/blue)* leads on spools, (2) 5 ft color-coded *(red/blue)* leads, (2) 100 ft hand-tied color-coded *(green/black)* leads, (1) 30 ft lead *(green)*, (4) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.

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GROUND RESISTANCE TESTERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	2117.76	Bag – Small Flat Black Canvas Bag for Ground/Accessories Dimensions: (17 × 6.5 × 2.75) in	•	•	•	•	•	•	•	•	•	•	
	2118.09	Case – General Carrying Case Dimensions: (13 × 9.5 × 3) in					•	•	•				
	2119.48	Multi-purpose Canvas Pouch Dimensions: (11 × 5 × 2.25) in					•	•					
	2119.82	Multi-purpose Large Canvas Bag Dimensions: (22 × 10.5 × 12) in	•	•	•	•	•	•	•	•	•	•	
	2126.45	Adapter, Bluetooth® USB						•					
	2126.71	Case – Replacement Carrying Case Dimensions: (10.5 × 6.5 × 6) in	•	•									
	2130.59	25 Ω Calibration Checker			•	•							
	2130.60	100 ft Tape Measure for use with Ground Resistance Tester Kits	•	•	•	•	•	•	•	•	•	•	
	2133.72	Small Classic Tool Bag for field use Dimensions: (13.0 × 9.8 × 9.5) in											•
	2135.39	Set of (2) 14.5 in T-shaped Ground Rods for use with all Ground Testers *(except clamp-ons)*	•	•	•	•				•	•	•	
	2135.40	Bag – Replacement Carrying Bag								•	•	•	
	2135.41	Optical USB Cable								•	•	•	
	2135.43	Inverter – 12 VDC to 120 VAC 200 Watt for Vehicle Use		•		•				•	•	•	
	2135.44	Ground Rods – Set of (2) 17 in Stainless Steel Threaded T-shaped Auxiliary Ground Electrodes	•	•	•	•				•	•	•	
	2135.47	Replacement wrist strap for Ground Tester					•	•	•				

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AEMC® INSTRUMENTS

GROUND RESISTANCE TESTERS
ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	2135.71	AC Current Probe Model MN82								•	•		
	2135.72	AC Current Probe Model SR182								•	•		
	2135.75	Replacement – Connection Lead									•		
	2135.76	BNC 50 ft (15 m) M/F Extension Lead – for use with any instrument that requires BNC connection										•	
	2135.77	Replacement – Set of (12) Groundflex® Rings for Model 6472/6474 Kit										•	
	2135.78	Green Extension Lead (5 m) on H Reel – for use with General Test Equipment accepting a 4 mm Safety Banana Plug										•	
	2135.79	Black Extension Lead (5 m) on H Reel – for use with general test equipment accepting a 4 mm Safety Banana Plug										•	
	2135.80	Replacement – Set of (3) C-Clamps										•	
	2135.81	Fuse – Set of (5) 0.63 A, 250 V (5 × 10) mm								•	•		
	2135.82	Replacement – Calibration Loop										•	
	2135.83	Replacement – Carrying Case for Model 6474 *(tray not included)*										•	
	2135.85	Set of (2) Reel Caddies for use w/ Ground Kit Spools	•	•	•	•				•	•	•	
	2135.86	BNC 150 ft (45 m) M/F Extension Lead										•	
	2135.87	Groundflex® (10m) Sensor for use only with Model 6474										•	
	2135.92	Replacement – (1) Groundflex® Sensor (5 m w/ 16 m black cable) for use with Model 6474										•	

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GROUND RESISTANCE TESTERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	2135.93	Cable - Replacement USB charger cable w/ wall plug	•	•									
	2138.54	Continuity Probe											•
	2141.50	Case - Replacement, ABS w/ slot					•	•					
	2141.51	Calibration Loop - 5 Ohm Field Test Loop					•	•	•				
	2141.52	Case - Replacement, ABS w/ slot for Models 6418							•				
	2153.06	AC Current Probe Model MN72										•	
	2960.21	Replacement 9.6 V Rechargeable Battery Pack								•	•		
	5000.01	Green replacement wire (30 ft hand-tied) for ground resistance tester kits			•	•				•	•	•	
	5000.02	Red replacement wire (500 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.03	Red replacement wire (300 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.04	Red replacement wire (150 ft) on reel for ground resistance tester kits	•	•	•	•				•	•		•
	5000.05	Blue replacement wire (500 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.06	Blue replacement wire (300 ft) on reel for ground resistance tester kits			•	•				•	•	•	
	5000.07	Blue replacement wire (150 ft) on reel for ground resistance tester kits	•	•	•	•				•	•		
	5000.08	Green replacement wire (100 ft hand-tied) for ground resistance tester kits	•	•	•	•				•	•	•	
	5000.09	Black replacement wire (100 ft hand-tied) for ground resistance tester kits	•	•	•	•				•	•	•	

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AEMC® INSTRUMENTS

GROUND RESISTANCE TESTERS

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	CAT. #	DESCRIPTION	6422	6424	4620	4630	6416	6417	6418	6471	6472	6474	CA 6011
	5000.10	Set of (5) replacement screw-on spaded lugs for ground resistance tester kits			•	•				•	•	•	
	5000.13	Power adapter 110/240 V and power cord 120 V US								•	•		
	5000.14	Power cord 120 V	•	•	•	•				•	•	•	
	5000.18	Empty replacement reel for ground kits *(holds up to 500 ft of wire)*	•	•	•	•				•	•	•	
	5000.32	Power cord 220 V	•	•	•	•				•	•	•	
	5000.34	Lead - Set of (2), 5 ft Color-coded *(red/blue)* leads for use with AEMC® Ground Tester Reels incorporating banana jack input	•	•	•	•				•	•	•	
	5000.57	Power adapter, 24 VDC charger *(vehicle use)*								•	•	•	
	5000.64	Spindle - replacement for the 150 ft ground kit reels			•	•				•	•	•	•
	5000.65	Spindle - replacement for 300 & 500 ft ground kit reels			•	•				•	•		
	5000.74	Ground resistance calibration checker - 5/25 Ω								•	•		
	5000.92	Calibration Checker	•	•									
	5000.97	Probe - black test probe {Rated 1000 V CAT IV, 15 A, UL V2}											•
	5100.19	Reel - Empty Wire Reel *(Holds up to 150 ft of wire)*	•	•	•	•				•	•	•	•

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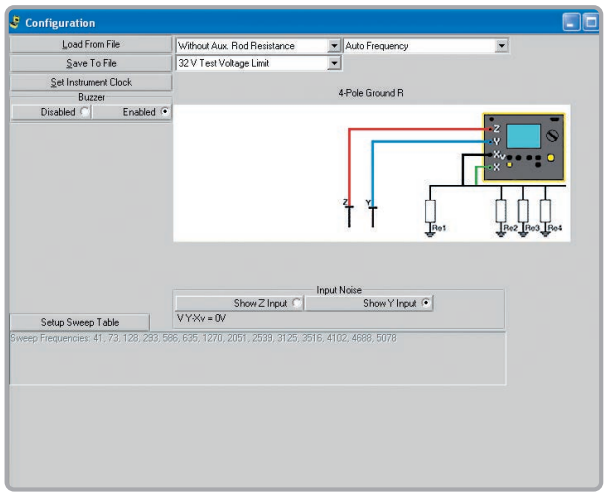
DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

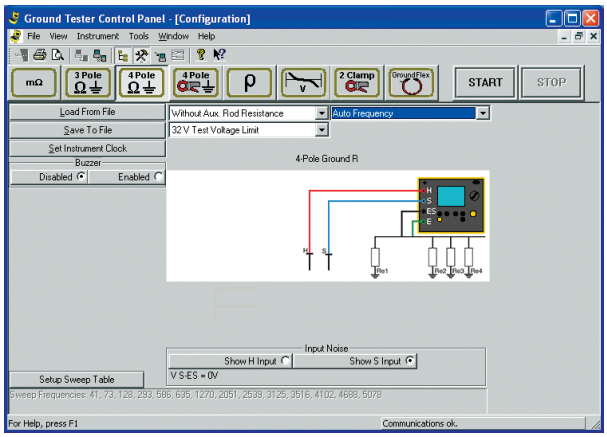
DataView® software, user manual and quick start guide are included in the USB Drive

Configure all functions:

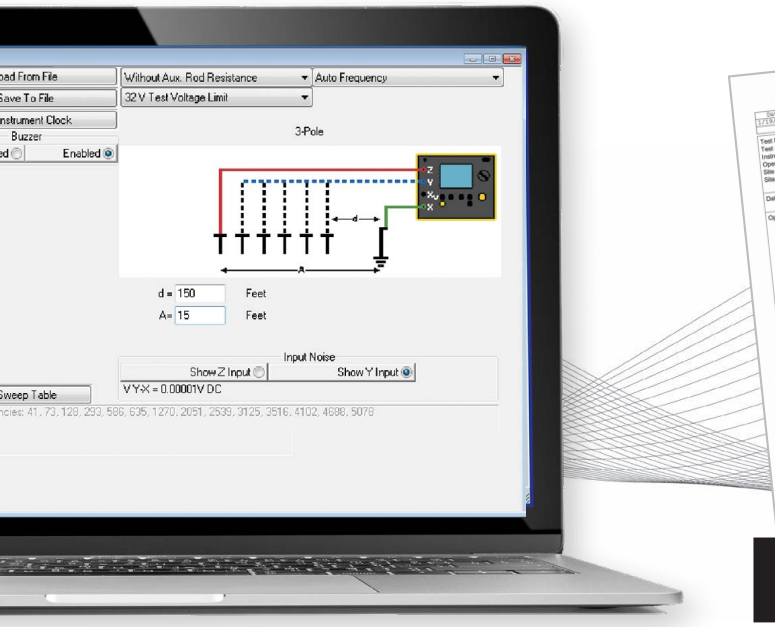
- Capture, download, display and analyze real-time data on your PC
- Upload stored test results to your PC
- Easily configure all functions and parameters specific to each instrument from your PC
- Create and store a complete library of configurations that can be uploaded to a device as needed
- Create custom views, templates, and reports to your exact needs
- Zoom in and out and pan through sections of graphs to analyze the data
- Perform measurements in real-time *(model dependent)*, download, display and analyze recorded and stored data
- Display Fall-of-Potential plots, tabular listings of test results, resistance vs. frequency plots, soil resistivity and point-to-point tests *(Models 6417, 6471, 6472, and 6474)*
- Print all test result reports using our standard report templates or create custom templates for branded reporting
- Free updates available on our website: ***www.aemc.com***

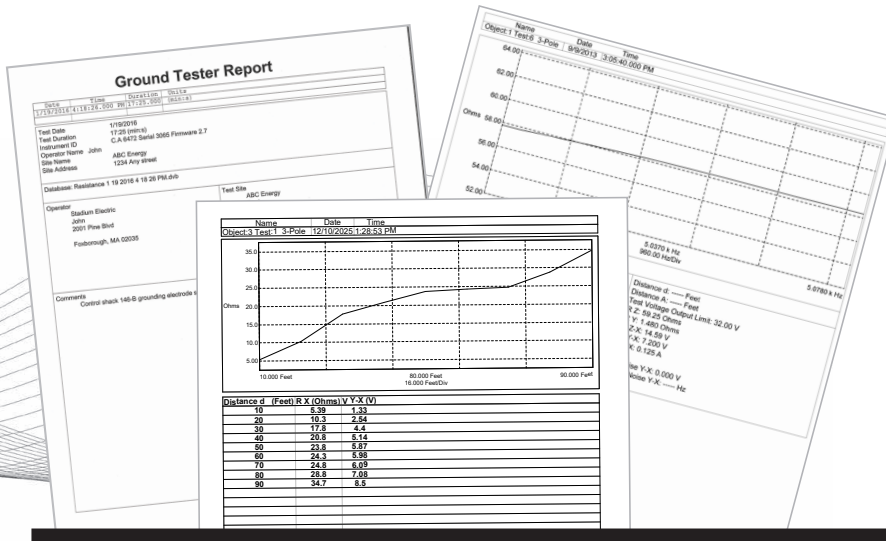


Configure and control ground resistance tests from your computer through the use of clear and easy-to-use tabbed dialog boxes.



All Ground Tester functions can be configured and tests can be initiated with graphical illustration of proper connections





Typical reports showing test measurement data

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