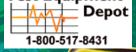


## **GROUND RESISTANCE TESTERS Multi-Function**



Melrose, MA 02176 Phone 781-665-1400 Toll Free 1-800-517-8431

Visit us at www.TestEquipmentDepot.com

**(**  $\in$   $\square$ 

cover close



## **Model 6471**

Test ground resistance without the need of auxiliary rods or with the 3- and 4- Point methods



The Model 6471 provides a fast and easy way to measure the value of the earth/ground using the 2 Clamp method (no auxiliary rods needed).



#### 300ft Kit: Catalog #2135.50

Includes meter, carrying bag for meter, carrying bag for kit, two 300ft color-coded leads on spools (red/blue), two 5ft color-coded leads (red/blue), two 100ft color-coded leads (hand-tied, green/black), two SR182 current probes, rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, four T-shaped auxiliary ground electrodes, set of five spaded lugs, one 100ft tape measure, and USB drive supplied with DataView® software, ground tester workbook and user manual.

#### ► ACCESSORIES

MN82 current probe (2mA to 10Arms) Catalog #2135.71 (optional)



**Reel Caddy** Catalog #2135.85 (optional) Set of two, for use with ground kit spools





## ► SPECIFICATIONS

MODEL	0.474							
MODEL	6471							
ELECTRICAL								
2 Clamp Measurement	0.404 - 500 5							
Range	0.10 to 500Ω							
Resolution	0.01 to 1Ω							
Measurement Frequency	Auto: 1611Hz Manual: 128Hz-1367Hz-1611Hz-1758Hz							
3-Point Measurement								
Range (Auto-Ranging)	0.09 $\Omega$ to 99.9k $\Omega$							
Resolution	0.01Ω to 100Ω							
Test Voltage	Nominal 16 or 32Vrms user selectable							
Resistance Measurement Frequency	41 to 513Hz automatic or user selectable							
Test Current	Up to 250mA							
Accuracy	±2% of Reading + 1ct @ 128Hz							
Soil Resistivity 4-Point Mea	surement							
Test Method	Wenner or Schlumberger selectable with automatic calculation in Ω-meters							
Range (Auto-Ranging)	0.01 to 99.99kΩ; ρ max: 999kΩm							
Resolution	0.001 to 10Ω							
Test Voltage	16 or 32V user selectable							
Frequency	From 41 to 128Hz selectable							
External Voltage Measurem	ient							
Range (Auto-Ranging)	0.1 to 65.0Vac/dc - DC to 440Hz							
Accuracy	$\pm 2\%$ of Reading + 1ct							
Resistance Measurement (E	Bond Testing)							
Measurement Type	2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing) user selectable							
Range (Auto-Ranging)	2-Pole 0.02 to 99.99kΩ; 4-Pole 0.02 to 99.99kΩ							
Accuracy	$\pm 2\%$ of Reading + 2cts							
Test Voltage	16Vbc (+, - or auto polarity)							
Test Current	Up to 250mA max							
Data Storage								
Memory Capacity	512 test results (64KB)							
Communication	Optically Isolated USB							
Power Source	9.6V rechargeable battery pack (included)							
Recharging Source	110/220V, 50/60Hz external charger with 18Vbc, 1.9A output							



## Model 6471

### **Large Functional Displays**

#### ► FEATURES

- Ground Integrity<sup>®</sup> Measurement
- Ground Resistance testing using the 2 • clamp method (no auxiliary rods needed)
- 2- and 4-Point Bond Resistance/Continuity measurement (DC Resistance) with automatic polarity reversal
- 3-Point Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Point Soil Resistivity measurement with automatic calculation of Rho ( $\rho$ ) and user selection of the Wenner or Schlumberger test method
- 3-Point Earth Coupling measurement
- Manual and Automatic frequency scan from 41 to 513Hz for optimum test accuracy in electrically noisy environments
- Selectable test voltage of 16 or 32V up to • 250mA of test current
- Auto Power OFF feature
- Automatic recognition of all electrode connections and their resistance value
- Stores up to 512 complete test results in internal memory
- Display with automatic backlight when • entering a function
- Optically isolated USB communication • cable included
- Rechargeable NiMH batteries from wall • charger or vehicle power
- Rugged dustproof and rainproof field case -• IP53 rated in closed position
- Grounding standards IEC 61557 parts 4 and 5 compliant
- Includes DataView<sup>®</sup> software for set up, data storage, real-time display, analysis, report generation and system configuration

DESCRIPTION

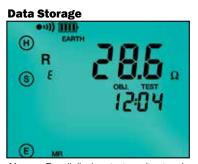
#### **4-Point Bond Test**



The 4-Point Bond test shows lead connections. bond resistance test results. test voltage and current.



The Schlumberger test displays test lead connection, soil resistivity ( $\rho$ ) test results and electrode spacing.



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

#### **3-Point Fall-of-Potential Test**



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



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

#### Wenner Test



The Wenner test displays test lead connection, soil resistivity  $(\rho)$  test results, electrode spacing and resistance.

NOTE: More information for each test is available by scrolling through the displays.

2135.48	Ground Resistance Tester Model 6471 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView <sup>®</sup> software) <b>SR182 probes not included</b>						
2135.49	Ground Resistance Tester Model 6471 (set of two SR182 current probes, 2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)						
2135.50	Ground Resistance Tester Model 6471 Kit – 300ft (Catalog #2135.49 and Catalog #2135.36)						
2135.60	Ground Resistance Tester Model 6471 Kit – 300ft (Catalog #2135.48 and Catalog #2135.36)						
2135.61	Ground Resistance Tester Model 6471 Kit – 500ft (Catalog #2135.48 and Catalog #2135.37)						
Accessories (O	ptional) available on website storefront						
2135.71*	AC Current Probe Model MN82 for use with Model 6471						
2135.72*	AC Current Probe Model SR182 for use with Model 6471						
2135.85	Caddy – Set of 2, Reel Caddy for use w/Ground Kit Spools						

\*2 probes required for two clamp testing method.



CATALOG NO.

## **GROUND RESISTANCE TESTER** Selection Chart

AEMC Model Number	AEMC Catalog Number	RESISTANCE Range	POWER Source	2 Point Test	3 Point Test	4 Point/ Selective	SOIL RESISTIVITY TEST	EARTH Coupling	2 Clamp	BONDING	DISPLAY	VOLTAGE INDICATION	INDUCTANCE INDICATION	
6416	2141.01	0.01 to 1500Ω	Battery	Clamp		ound Resista arm & Memo		_	_	✓ **	Digital	Voltage Displayed (noise icon, buzzer)	~	_
6417	2141.02	0.01 to 1500Ω	Battery	Clamp w/	Alarm, N	ound Resista Aemory & <i>B</i> nmunicatior	luetooth	_	_	<b>√</b> **	Digital	Voltage Displayed (noise icon, buzzer)	~	_
GroundFlex <sup>®</sup> Field Kit Model 6474	2136.03	0.001Ω to 99.99kΩ	Rechargeable Battery	ļ	✓	✓	~	✓	_	✓	Digital	Value Displayed	_	~
6471 (SR182 probes not included)	2135.48	0.01 to 99.99kΩ	Rechargeable Battery	~	~	~	~	✓	~	✓	Digital	Value Displayed	_	_
6471	2135.49													
6471 Kit 300FT	2135.50													
6472	2135.51				~	~	~	✓	~	~	Digital	Value Displayed	_	~
6472 Kit 300FT	2135.53	0.01 to 99.99kΩ	Rechargeable Battery	✓										
6472 Kit 500FT	2135.54													
4620	2130.43	0.0 to 1999Ω	Battery	~	~	_	~	_	_	_	Digital	LED/Buzzer	_	_
4620 Kit 150FT	2135.19						√ *							
4620 Kit 300FT	2135.20	0.0 to 2000Ω	Battery	✓	✓	_	✓	_	_	_	Digital	LED/Buzzer	_	_
4620 Kit 500FT	2135.21	0.0 to 1999Ω	Battery	✓	✓	_	✓	_	_	_	Digital	LED/Buzzer	_	_
4630	2130.44				~	_	✓		_		Digital	LED/Buzzer	_	_
4630 Kit 150FT	2135.22	0.0 to 1999Ω	Rechargeable Battery	~			√ *							
4630 Kit 300FT	2135.23						✓							
4630 Kit 500FT	2135.24						✓							
3640	2114.92	0.0 to 1999Ω	Battery	~	~	_	_	_	_	_	Digital	LED	_	_
3640 Kit 150FT	2135.13													
3640 Kit 300FT	2135.14													

\* Performing soil resistivity tests with this kit requires two additional auxiliary electrodes not supplied in the 150ft kit and one additional test lead. \*\* Clamp-on Ground Resistance Tester can measure system continuity inclusive of all bonding points.

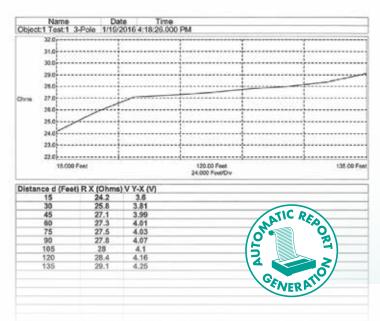


## **DATAVIEW®** Software for Ground Resistance Testers

# DataView<sup>®</sup>

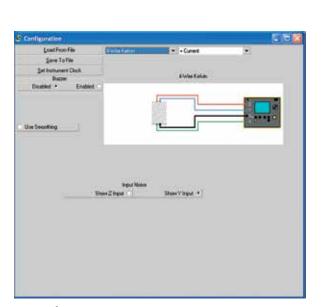
## **Data Analysis and Reporting Software for Ground Testers**



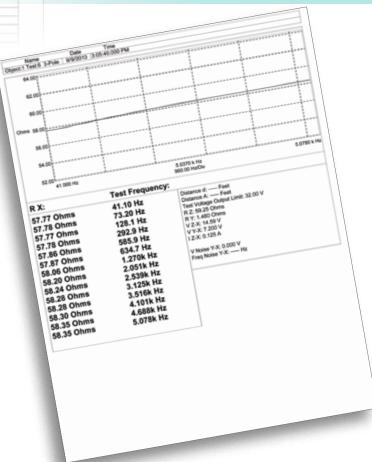


## Configure all functions of the Models 6417, 6471 & 6472

- Run tests and analyze real-time data from your PC
- Configure all test functions and parameters from your PC
- Customize views, templates and reports to your exact needs
- Display Fall-of-Potential plots, tabular listings of test results, resistance vs. frequency plots, soil resistivity and bonding tests (Models 6471 & 6472)
- Print reports using standard or custom templates you design
- Free updates are available on our website www.aemc.com



DataView® software provides a convenient way to 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. Results can be displayed in real-time and stored in your PC. Reports may be printed along with the operator's comments and analysis.





Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176

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