Model 6471
Test ground resistance without the need of auxiliary rods!

AC Current Probes
Model SR182

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

300 ft Kit: Catalog #2135.50
Includes meter, set of two SR182 current probes, rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, two 300 ft color-coded leads on spools (red/blue), two 5 ft color-coded leads (red/blue), two 100 ft color-coded leads (hand-tied, green/black), four T-shaped auxiliary ground electrodes, set of five spaded lugs, one 100 ft tape measure, DataView® software, ground tester workbook CD, carrying bag for meter, carrying bag for kit, product warranty and registration card and a user manual.

MODEL 6471

ELECTRICAL

2 Clamp Measurement
Range 0.10 to 500Ω
Resolution 0.01 to 1Ω
Measurement Frequency Auto: 1367Hz Manual: 128Hz-1367Hz-1611Hz-1758Hz

3-Point Measurement
Range (Auto-Ranging) 0.09Ω to 99.9kΩ
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 Measurement
Test Method Wenner or Schlumberger selectable with automatic calculation in Ω-meters
Range (Auto-Ranging) 0.01 to 99.99kΩ; Max: 999kΩ
Resolution 0.001Ω to 100Ω
Test Voltage 16 or 32V user selectable
Frequency From 41 to 128Hz selectable

External Voltage Measurement
Range (Auto-Ranging) 0.1 to 65.0Vdc – DC to 440Hz
Accuracy ±2% of Reading + 1ct

Resistance Measurement (Bond Testing)
Measurement Type 2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing) user selectable
Range (Auto-Ranging) 2-Pole 0.02Ω to 99.99kΩ; 4-Pole 0.02Ω to 99.99kΩ
Accuracy ±2% of Reading + 2cts
Test Voltage 16Vdc (+, - 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 110/220 50/60Hz external charger with 18Vdc, 1.9A output

Shop for AEMC products online at: www.ShopAEMC.com 1.888.610.7664
**Model 6471**

**Large Functional Displays**

**FEATURES**

- 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 (ρ) 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-off power management
- 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
- Remote set up and operation of all measurements using DataView® software
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case – IP54 rated in closed position
- Grounding standards IEC 61557 parts 4 and 5 compliant
- Includes DataView® software for data storage, real-time display, analysis, report generation and system configuration

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**CATALOG NO. DESCRIPTION**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2135.49</td>
<td>Ground Resistance Tester Model 6471 (set of two SR182 current probes, 2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)</td>
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<tr>
<td>2135.50</td>
<td>Ground Resistance Tester Model 6471 Kit – 300 ft (Catalog #2135.49 and Catalog #2135.36)</td>
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**Accessories (Optional)**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>2135.71*</td>
<td>AC Current Probe Model MN82 for use with Model 6471</td>
</tr>
<tr>
<td>2135.72*</td>
<td>AC Current Probe Model SR182 for use with Model 6471</td>
</tr>
<tr>
<td>2135.85</td>
<td>Caddy – Set of 2, Reel Caddy for use w/Ground Kit Spools (available on website storefront)</td>
</tr>
</tbody>
</table>

*2 probes required for two clamp testing method.

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

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**4-Point Bond Test**

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

**Schlumberger Test**

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

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

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

**Two Clamp Test**

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

**Wenner Test**

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

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

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DataView®
Data Analysis and Reporting Software for Ground Testers

Configure all functions of the Models 6470-B, 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
- 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.
Ground Testers Models 6470-B, 6471 & 6472

Typical DataView® Functional Displays

2 Clamp Method Setup

Selective 3-Point Testing of Multiple Rods

Fall-of-Potential, Step-Touch Potential

4-Point Bonding For Very Low Resistance

Soil Resistivity

150 ft Kit

Catalog #2135.35
Test Kit for 3-Point testing includes two 150 ft color-coded leads on spools (red and blue), two 5 ft color-coded leads (red/blue), one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs, 100 ft tape measure and carrying bag.

300 ft Kit

Catalog #2135.36
Test Kit for 4-Point testing includes two 300 ft color-coded leads on spools (red and blue), two 5 ft color-coded leads (red/blue), two 100 ft color-coded leads (green and black), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs, 100 ft tape measure and carrying bag.

500 ft Kit

Catalog #2135.37
Test Kit for 4-Point testing includes two 500 ft color-coded leads on spools (red and blue), two 5 ft color-coded leads (red/blue), two 100 ft color-coded leads (green and black), one 30 ft lead (green), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs, 100 ft tape measure and carrying bag.

OPTIONAL KITS

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