GROUND RESISTANCE TESTERS
Multi-Function

Model 6472

Used under difficult conditions such as the presence of high stray currents that normally affect accuracy

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>6472</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL</strong></td>
<td></td>
</tr>
<tr>
<td>3-Point Measurement</td>
<td></td>
</tr>
<tr>
<td>Range (Auto-Ranging)</td>
<td>0.09Ω to 99.9kΩ</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01Ω to 100Ω</td>
</tr>
<tr>
<td>Test Voltage</td>
<td>Nominal 16 or 32Vrms user selectable</td>
</tr>
<tr>
<td>Resistance Measurement Frequency</td>
<td>41 to 5078Hz automatic or user selectable</td>
</tr>
<tr>
<td>Test Current</td>
<td>Up to 250mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% of Reading + 1ct @ 128Hz</td>
</tr>
<tr>
<td>2 Clamp Measurement</td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0.1 to 500Ω</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01 to 1Ω</td>
</tr>
<tr>
<td>Measurement Frequency</td>
<td>Auto: 1611Hz, Manual: 128Hz-1367Hz-1611Hz-1758Hz</td>
</tr>
<tr>
<td>Soil Resistivity 4-Point Measurement</td>
<td></td>
</tr>
<tr>
<td>Test Method</td>
<td>Wenner or Schlumberger selectable with automatic calculation of test results in Ω-meters</td>
</tr>
<tr>
<td>Range (Auto-Ranging)</td>
<td>0.01 to 99.9kΩ; p max: 999kΩm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01 to 1Ω</td>
</tr>
<tr>
<td>Test Voltage</td>
<td>16 or 32V user selectable</td>
</tr>
<tr>
<td>Frequency</td>
<td>From 41 to 128Hz selectable</td>
</tr>
<tr>
<td>External Voltage Measurement</td>
<td></td>
</tr>
<tr>
<td>Range (Auto-Ranging)</td>
<td>0.1 to 65.0Vac/dc – DC to 440Hz</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% of Reading + 1ct</td>
</tr>
<tr>
<td>Resistance Measurement (Bond Testing)</td>
<td></td>
</tr>
<tr>
<td>Measurement Type</td>
<td>2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing) user selectable</td>
</tr>
<tr>
<td>Range (Auto-Ranging)</td>
<td>2-Pole 0.02Ω to 99.9kΩ; 4-Pole 0.02Ω to 99.9kΩ</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% of Reading + 2cts</td>
</tr>
<tr>
<td>Test Voltage</td>
<td>16Vdc (+, - or auto polarity)</td>
</tr>
<tr>
<td>Test Current</td>
<td>Up to 250mA max</td>
</tr>
<tr>
<td>Data Storage</td>
<td>Memory Capacity</td>
</tr>
<tr>
<td>Power Source</td>
<td>9.6V rechargeable battery pack (included)</td>
</tr>
<tr>
<td>Recharging Source</td>
<td>110/220V, 50/60Hz external charger with 16Vcc, 1.9A output</td>
</tr>
</tbody>
</table>

TEST KITS

300 ft Kit: Catalog #2135.53
500 ft Kit: Catalog #2135.54

Refer to page 37 for Model 6472 Kit descriptions Catalog #2135.35, #2135.36 & #2135.37

ACCESSORIES

MN82 current probe (2mA to 10Arms) Catalog #2135.71 (optional)
SR182 current probe (0.5mA to 40Arms) Catalog #2135.72 (optional)

Reel Caddy Catalog #2135.85 (optional) Set of two, for use with ground kit spools
Model 6472

Large Functional Displays

FEATURES

- Ground Resistance testing using the 2 clamp method (no auxiliary rods needed) using optional current probes
- 2- and 4-Wire 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
- Measures Ground impedance at frequencies up to 5kHz to test lightning strike protection
- Manual and automatic frequency scan from 41 to 5078Hz 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
- Display with automatic backlight when entering a function
- Optically isolated USB communication cable included
- Automatic report generation including the fall of potential plot
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case – IP53 rated in closed position
- Includes DataView® software for data storage, real-time display, analysis, report generation and system configuration

4-Point Bond Test

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

3-Point Fall-of-Potential Test

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

Schlumberger Test

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

Frequency Selection Test

The Frequency selection screen displays selected test frequency and voltage for the test as well as lead connection.

Data Storage

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

Wenner Test

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

CATALOG NO. DESCRIPTION

2135.51 Ground Resistance Tester Model 6472 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)
2135.53 Ground Resistance Tester Model 6472 Kit – 300 ft (Model 6472 and Catalog #2135.36)
2135.54 Ground Resistance Tester Model 6472 Kit – 500 ft (Model 6472 and Catalog #2135.37)

Accessories (Optional)

2135.71* AC Current Probe Model SR182 for use with Model 6472
2135.72* AC Current Probe Model SR182 for use with Model 6472
2135.73* Caddy – Set of 2, Reel Caddy for use with Ground Kit Spools (available on website storefront)

*2 probes required for two clamp testing method.
Typical DataView® Functional Displays

2 Clamp Method Setup

Selective 3-Point Testing of Multiple Rods

Bonding

Fall-of-Potential, Step-Touch Potential

4-Point Bonding For Very Low Resistance

Soil Resistivity

OPTIONAL KITS

150 ft Kit

Catalog #2135.35
Test Kit for 3-Point testing includes carrying bag, two 150 ft color-coded leads on spools (red/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 and 100 ft tape measure.

300 ft Kit

Catalog #2135.36
Test Kit for 4-Point testing includes carrying bag, two 300 ft color-coded leads on spools (red/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 and 100 ft tape measure.

500 ft Kit

Catalog #2135.37
Test Kit for 4-Point testing includes carrying bag, two 500 ft color-coded leads on spools (red/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 and 100 ft tape measure.
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
- 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.