

## Multi-Function Ground Resistance Tester Model 6470

Measure ground resistance, soil resistivity and bonding resistance with one instrument!



Model 6470



### Features

- 3-Point Fall-of-Potential measurement with manual or automatic frequency selection
- 3-Point earth coupling measurement
- Automatic frequency scan from 40 to 513 Hz for optimum test accuracy in electrically noisy environments
- Selectable test voltage of 16 or 32V with up to 250mA
- 4-Point soil resistivity measurement with automatic calculation of Rho ( $\rho$ ) and user selection of the Wenner or Schlumberger test method
- 2- and 4-wire DC resistance measurement (Bond testing) with automatic polarity reversal
- Automatic measurement of auxiliary electrodes resistance
- Auto-off power management
- Automatic recognition of all electrode connections and their resistance value
- Stores up to 512 complete test results
- Optically coupled USB Communication
- Remote set up and operation of all measurements using DataView<sup>®</sup> software supplied
- Automatic report generation
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case – IP54 rated in closed position
- IEC 61557 parts 4 and 5 compliant
- Includes DataView<sup>®</sup> software for data storage, real-time display, analysis, report generation and system configuration

SPECIFICATIONS	
MODEL	6470
<b>ELECTRICAL</b>	
<b>3-Point Measurement</b>	
Range (Auto-Ranging)	0.01 to 99.99k $\Omega$
Resolution	0.01 to 100 $\Omega$
Test Voltage	16 or 32V selectable
Resistance Measurement Frequency	40 to 513Hz selectable or automatic selection
Test Current	Up to 250mA
Accuracy	$\pm 2\%$ of Reading + 1ct
<b>Soil Resistivity 4-Point Measurement</b>	
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results displayed in $\Omega$ -meters or $\Omega$ -feet
Range (Auto-Ranging)	0.01 to 99.99k $\Omega$
Resolution	0.01 to 100 $\Omega$
Test Voltage	16 or 32V selectable
Frequency	73, 91.5, 101, 110 or 128Hz selectable
<b>External Voltage Measurement</b>	
Range (Auto-Ranging)	0.1 to 65.0VAc/bc – DC to 500Hz
Accuracy	2% of Reading + 2cts
<b>Resistance Measurement (Bond Testing)</b>	
Measurement Type	2-Point or 4-Point user selectable
Range (Auto-Ranging)	2-Point 0.01 to 99.9k $\Omega$ ; 4-Point 0.001 to 99.99k $\Omega$
Accuracy	$\pm 2\%$ of Reading + 2cts
Test Voltage	16Vdc
Test Current	200mA max
<b>Data Storage</b>	
Memory Capacity	512 test results
Communication	Optically isolated USB
<b>Power Source</b>	
Recharging Source	Eight 1.2V NiMH rechargeable batteries 110/120 50/60Hz external charge with 18Vdc, 1.9A output or 12Vdc vehicle power



Model 6470 includes meter, NiMH batteries, optical USB cable, DataView<sup>®</sup> software, external battery charger, power adapter 110/240V (line) and user manual.

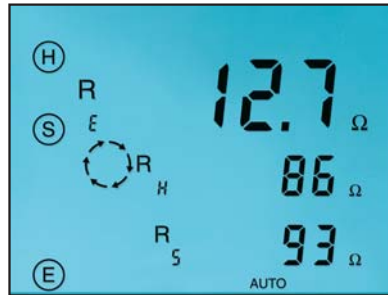
## Large Display!

### 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 rod resistance and test electrode resistances.

### Frequency Selection



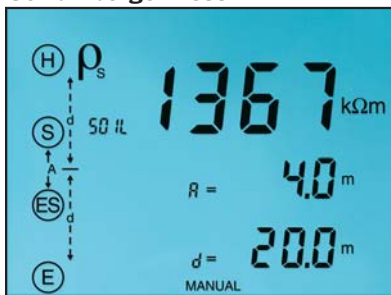
The Frequency selection screen displays selected test frequency and voltage for the test as well as lead connection.

### Data Storage



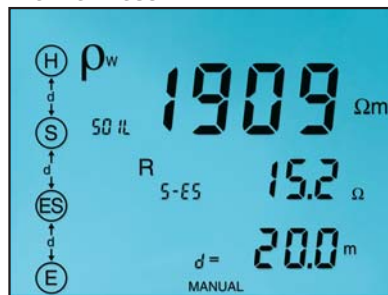
Displays test results stored at a specific memory location as well as the test function.

### Schlumberger Test



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

### Wenner Test



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

## DataView® Software for Model 6470



DataView® is included with the Model 6470

- Configure all functions and parameters from your PC on the Digital Ground Resistance Tester Model 6470
- Display and analyze real-time data on your PC
- Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded to the Model 6470 as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms
- Print reports using standard or custom templates you design



Multi-Function Ground Resistance Tester Model 6470 Kit (500 ft) includes meter, NiMH batteries, optical USB cable, DataView® software, external battery charger, power adapter 110/240V (line), one 30 ft green wire, one each 500 ft red and blue wire, one each 100 ft black and green wire, set of five spaded lugs, four auxiliary ground electrodes, tape measure, carrying case and user manual. Catalog #2135.04

CATALOG NO.	DESCRIPTION	
2135.01	Ground Resistance Tester Model 6470 (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)	\$2,250.00
2135.02	Ground Resistance Tester Model 6470 Kit – 150 ft (Model 6470 and Catalog #2135.35)	\$2,649.00
2135.03	Ground Resistance Tester Model 6470 Kit – 300 ft (Model 6470 and Catalog #2135.36)	\$2,749.00
2135.04	Ground Resistance Tester Model 6470 Kit – 500 ft (Model 6470 and Catalog #2135.37)	\$2,849.00
<b>Accessories (Optional)</b>		
2135.35	Test Kit for 3-Point testing (includes two 150 ft color-coded leads on spools (red/blue), one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)	\$ 449.00
2135.36	Test Kit for 4-Point testing (includes two 300 ft color-coded leads on spools (red/blue), two 100 ft color-coded leads (hand-tied green/black), four 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)	\$ 549.00
2135.37	Test Kit for 4-Point testing (includes two 500 ft color-coded leads on spools (red/blue), two 100 ft color-coded leads (hand-tied green/black), one 30 ft lead (green), four 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)	\$ 649.00
2135.38	Ground Test Kit for 3-Point testing (Supplemental for 4-Point testing – includes two 100 ft color-coded leads (hand-tied green/black), one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes and soft carrying bag)	\$ 249.00