

# Multi-Function Ground Resistance Tester Model 6470

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



Model 6470



SPECIFICATIONS	
MODEL	6470
<b>ELECTRICAL</b>	
<b>3-Point Measurement</b>	
Range (Auto-Ranging)	0.01 to 99,000Ω
Resolution	0.01 to 100Ω
Test Voltage	16 or 32V selectable
Resistance Measurement Frequency	40 to 513Hz selectable or swept
Test Current	Up to 200mA
Accuracy	±2% of Reading + 1ct
<b>Soil Resistivity 4-Point Measurement</b>	
Test Method	Wenner or Schlumberger selectable with automatic calculation test results displayed in Ω-meters or Ω-feet
Range (Auto-Ranging)	0.01 to 99,000Ω
Resolution	0.01 to 100Ω
Test Voltage	16 or 32V selectable
Frequency	73, 91.5, 101, 110 or 128Hz selectable
<b>External Voltage Measurement</b>	
Range (Auto-Ranging)	1.00 to 75.0V <sub>ac/dc</sub> – 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 99.9kΩ; 4-Point 0.001 to 99.99kΩ
Accuracy	±2% of Reading + 2cts
Test Voltage	16V <sub>dc</sub>
Test Current	200mA max
<b>Data Storage</b>	
Memory Capacity	512 test results
Communication	Optically isolated USB
<b>Power Source</b>	
Eight 1.2V NiMH rechargeable batteries	
<b>Recharging Source</b>	
110/120 50/60Hz external charge with 18V <sub>dc</sub> , 1.9A output or 12V <sub>dc</sub> vehicle power	

## Features

- 3- and 4-Point measurement with manual or automatic frequency selection (even during measurement) from 40 up to 500Hz, >120dB noise reduction
- Selectable test voltage of 16 or 32V<sub>ac</sub> RMS
- True RMS (AC, DC, AC/DC) voltage measurement from 200mV to 50V (15Hz to 1kHz)
- Automatic measurement of auxiliary electrodes
- Soil resistivity measurement using Wenner or Schlumberger test method
- 2- and 4-Point DC resistance measurement with automatic polarity change (Bonding test function)
- Auto-off for power management
- Automatic recognition of all electrode connections and their resistance
- Memory stores up to 512 test results
- USB communication
- Remote operation of all measurement functions using DataView® software
- Automatic report generation
- AC powered with rechargeable NiMH batteries
- Rugged dustproof and rainproof field case — IP54 in closed position
- IEC 61557 part 4 and part 5
- Includes DataView® software for data storage, real-time display, analysis and report generation



Model 6470 includes meter, NiMH batteries, optically isolated USB cable, DataView® software, external battery charger, AC power cord and user manual.

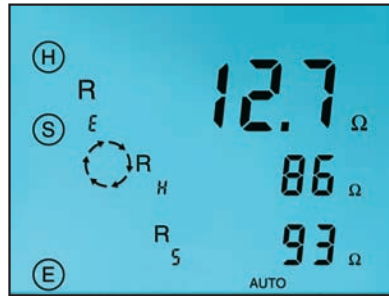
## Large Display!

### 4-Point Bond Test



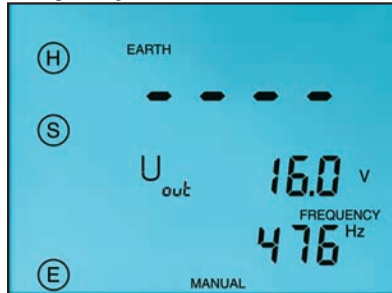
The 4-Point Bond test

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



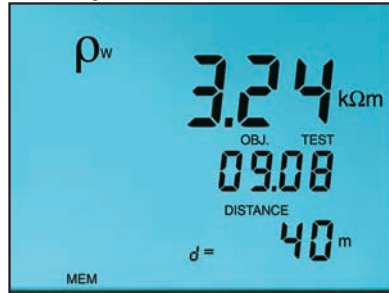
The 3-Point Fall-of-Potential test

### Frequency Test



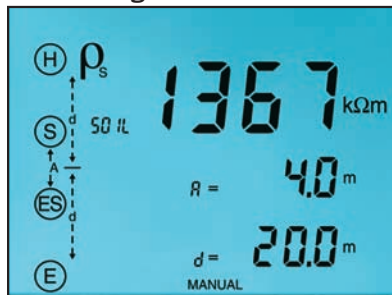
The Frequency test

### Memory Test



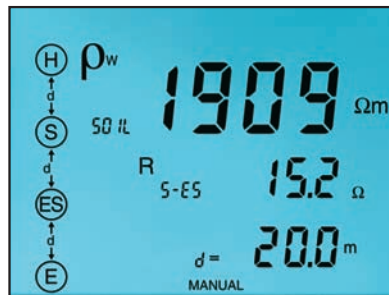
The Memory test

### Schlumberger Test



The Schlumberger test test

### Wenner Test



The Alarm test

See pages 22 and 23 for Ground Testing kit descriptions and images.

Multi-Function Ground Resistance Tester Model 6470 Kit (500 ft) includes meter, NiMH batteries, optically isolated USB cable, DataView® software, external battery charger, AC power cord, one 30 ft green wire, one each 500 ft red and blue wire, one each 100 ft black and green wire, set of five fork terminals, four ground electrodes, tape measure, carrying case and user manual. Catalog #2135.04

## 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



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 fork terminals, 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 fork terminals, 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), four 14.5" T-shaped auxiliary ground electrodes, set of five fork terminals, 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, one 30 ft lead (green), two 14.5" T-shaped auxiliary ground electrodes and soft carrying bag)	\$ 249.00