GROUND RESISTANCE TESTERS

Multi-Function



Model 6470-B



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



Why measure soil resistivity? Get your answer here!





►SPECIFICATIONS

MODEL	6470-В
ELECTRICAL	
3-Point Measurement	
Range (Auto-Ranging)	0.01 to 99.99kΩ
Resolution	0.01 to 100Ω
Test Voltage	16 or 32V selectable
Resistance Measurement Frequency	40 to 513Hz selectable or automatic selection
Test Current	Up to 250mA
Accuracy	±2% of Reading + 1ct
Soil Resistivity 4-Point Meas	surement
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results displayed in Ω-meters
Range (Auto-Ranging)	0.01 to 99.99kΩ
Resolution	0.001 to 10Ω
Test Voltage	16 or 32V selectable
Frequency	41 to 128Hz selectable
External Voltage Measureme	ent
Range (Auto-Ranging)	0.1 to 65.0Vac/dc - DC to 450Hz
Accuracy	±2% of Reading + 1ct
Resistance Measurement (B	ond Testing)
Measurement Type	2-Point or 4-Point user selectable
Range (Auto-Ranging)	2-Point 0.01 to 99.9k Ω ; 4-Point 0.001 to 99.99k Ω
Accuracy	±2% of Reading + 2cts
Test Voltage	16Vpc
Test Current	200mA max
Data Storage	
Memory Capacity	512 test results (64KB)
Communication	Optically isolated USB
Power Source	9.6V NiMH rechargeable battery pack (included)
Recharging Source	110/120 50/60Hz external charge with 18Vpc, 1.9A output or 12Vpc vehicle power

►TEST KITS

150 ft Kit: Catalog #2135.02
300 ft Kit: Catalog #2135.03
500 ft Kit: Catalog #2135.04
Includes meter, NiMH batteries,
optical USB cable, DataView®
software, power adapter 110/240V
with power cord 115V US, power cord
110/240V (line), two 5 ft red/blue
leads, one 30 ft green wire, one each
150, 300, 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.



► PRODUCT INCLUDES

NiMH batteries, optical USB cable, DataView® software, power adapter 110/240V with power cord 115V US, ground workbook CD, carrying bag and user manual.



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





Model 6470-B

Large Functional Displays

► FEATURES

- 2- and 4-Wire Bond Resistance/Continuity Measurement (DC Resistance) with automatic polarity reversal
- 3-Pole (3-Point) Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Pole (4-Point) Fall-of-Potential measurement for very low resistance measurements with manual and automatic frequency selection and automatic lead compensation
- 4-Pole (4-Point) Soil Resistivity measurement with automatic calculation of Rho (ρ) and user selection of the Wenner or Schlumberger test method
- · 3-Pole (3-Point) Earth Coupling measurement
- Manual and automatic frequency scan from 40 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
- Optically isolated USB communication cable included
- Display with automatic backlight when entering a function
- Remote set up and operation of all measurements using DataView[®] 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
- Grounding standards IEC 61557 parts 4 and 5 compliant
- Includes FREE DataView® software for data storage, real-time display, analysis and report generation (see page 38)

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.

Data Storage



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

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 Test



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

Wenner Test



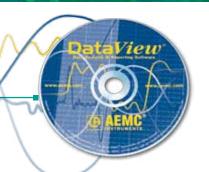
The Wenner test displays test lead connection, soil resistivity (ρ) test results, electrode spacing and resistance.

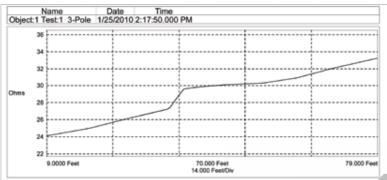
CATALOG NO. DESCRIPTION

2135.01	Ground Resistance Tester Model 6470-B (2-Point, 3-Point, 4-Point, Bond Test, Digital, Rechargeable Battery, DataView® software)
2135.02	Ground Resistance Tester Model 6470-B Kit – 150 ft (Model 6470-B and Catalog #2135.35)
2135.03	Ground Resistance Tester Model 6470-B Kit – 300 ft (Model 6470-B and Catalog #2135.36)
2135.04	Ground Resistance Tester Model 6470-B Kit – 500 ft (Model 6470-B and Catalog #2135.37)
Accessories	(Optional)
2135.35	Test Kit for 3-Point Testing (includes 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, set of five spaded lugs, 100 ft tape measure and soft carrying bag)
2135.36	Test Kit for 4-Point Testing (includes 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 14.5" T-shaped auxiliary ground electrodes, set of five spaded lugs, 100 ft tape measure and soft carrying bag)
2135.37	Test Kit for 4-Point Testing (includes two 500 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), 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)
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)
2135.85	Caddy – Set of 2, Reel Caddy for use w/Ground Kit Spools (available on website storefront)

Data View[®]

Data Analysis and Reporting Software for Ground Testers

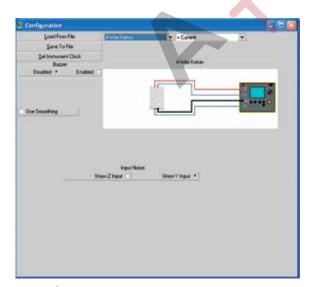




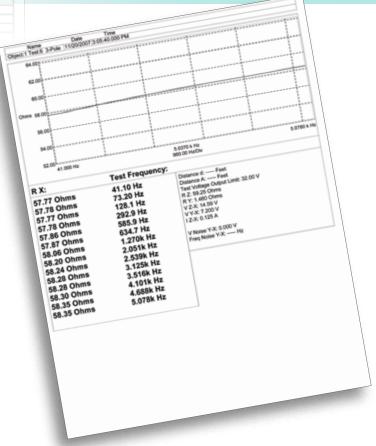
9	24.1	3.27	
18	25	3.37	
26	26.1	3.49	SIC D
35	29.3	3.63	ATIC RES
44	30.0	3.84	A No.
46	30.1	3.96	ONATIC RES
55	30.3	3.98	
62	30.9	4.05	13
70	32.1	4.19	\A
79	33.2	4.31	0.
			GENER ATT
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Configure all functions of the Models 6470-B, 6471 & 6472

- 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



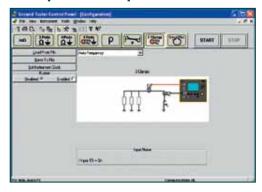
DataView® software provides a convenient way to configure and control ground resistance tests from your computer. Through the use of clear and easy-to-use tabbed dialog boxes, all ground tester functions can be configured and tests can be initiated. Results can be displayed in real-time and stored in 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

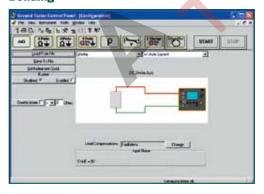
2 Clamp Method Setup



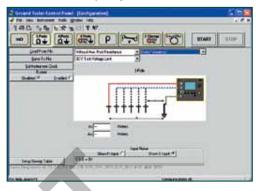
Selective 3-Point Testing of Multiple Rods



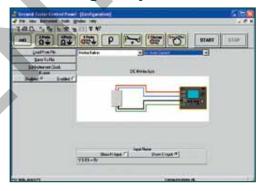
Bonding



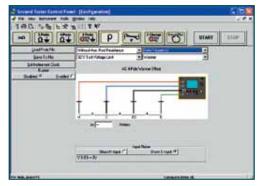
Fall-of-Potential, Step-Touch Potential



4-Point Bonding For Very Low Resistance



Soil Resistivity

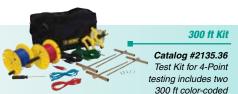


150 ft Kit

Catalog #2135.35 Test Kit for 3-Point testing includes two 150 ft color-coded

A‡RENT

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.



leads on spools (red and blue), two 5 ft colorcoded 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.

►OPTIONAL KITS 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.



Technical Assistance (800) 343-1391