

GROUND RESISTANCE TESTERS

DIGITAL TESTERS

MODELS 4620 & 4630

Both models will perform over 2000 measurements for the 15 second tests between recharging or battery replacement

SPECIFICATIONS

MODELS	4620		4630
ELECTRICAL			
Range	20Ω	200Ω	2000Ω
Measurement Range	0.00 to 19.99Ω	20.0 to 199.9Ω	200 to 1999Ω
Resolution	10mΩ	100mΩ	1Ω
Open Voltage	≤42V peak		
Measurement Frequency	128Hz square wave		
Test Current	10mA	1mA	0.1mA
Accuracy	±2% of Reading ±1ct		±5% of Reading ±3cts
Aux Electrode Influence			
Max Res. - Current Circuit	3kΩ	30kΩ	50kΩ
Max Res. - Voltage Circuit	50kΩ		
Response Time	Approximately four to eight seconds for a stabilized measurement		
Withstanding Voltage	250VAC or 100VDC		
Power Source	(8) C cell batteries (included); Alkaline recommended	120 / 230V 50 / 60Hz Rechargeable 9.6V, 3.5 Ah NiMH battery pack (included)	
Battery Life	>2000 15-second measurements; LO BAT indication on LCD		
Fuse Protection	0.1A, >250V, 0.25 x 1.25"; 30kA Interrupt Capacity		

Consult factory for NIST Calibration prices

ACCESSORIES/REPLACEMENTS

Catalog #2130.60

Tape Measure (100ft)

Catalog #2135.35*

Test Kit for 3-Point Testing – 150 ft

Catalog #2135.36*

Test Kit for 4-Point Testing – 300 ft

Catalog #2135.37*

Test Kit for 4-Point Testing – 500 ft

Catalog #5000.14

AC Power cord (4630)

Catalog #2135.38

Ground Test Kit for 3-Point Testing (Supplemental for 4-Point testing – includes (2) 100 ft color-coded leads, (1) 30 ft lead (green), (2) 14.5" T-shaped auxiliary ground electrodes and soft carrying bag)

Catalog #2130.59

Calibration Checker 25Ω for Models 3640, 4500, 4610, 4620 and 4630



KIT SHOWN

4630 KIT (500 ft)

*Refer to page 78 for Test Kit descriptions



cover closed cover open

FEATURES

- Ground Integrity Measurement
- Measures soil resistivity (4-Point)
- Measures ground resistance (2- and 3-Point) Fall-of-Potential method
- Step voltage tests and touch potential measurements
- Auto-Ranging: automatically selects the optimum resistance range and test current
- Designed to reject high levels of noise and interference
- Extremely simple to operate: connect/press/hold/read
- LED on faceplate informs operator of high input noise, high auxiliary rod resistance and fault connections
- Large easy-to-read backlit display
- Battery powered (Model 4620)
- AC powered with rechargeable NiMH battery pack (Model 4630)
- Rugged dustproof and watertight field case
- Color-coded terminals

PRODUCT INCLUDES

(8) C-cell batteries (4620) or rechargeable 9.6V NiMH battery pack (4630), AC power cord (4630), and a user manual.

CATALOG NO.	DESCRIPTION
2130.43	Ground Resistance Tester Model 4620 (Digital, 4-Point, Battery Powered)
2130.44	Ground Resistance Tester Model 4630 (Digital, 4-Point, Rechargeable Battery)
2135.19	Ground Resistance Tester Model 4620 Kit – 150 ft (Model 4620 and Catalog #2135.35)
2135.20	Ground Resistance Tester Model 4620 Kit – 300 ft (Model 4620 and Catalog #2135.36)
2135.21	Ground Resistance Tester Model 4620 Kit – 500 ft (Model 4620 and Catalog #2135.37)
2135.22	Ground Resistance Tester Model 4630 Kit – 150 ft (Model 4630 and Catalog #2135.35)
2135.23	Ground Resistance Tester Model 4630 Kit – 300 ft (Model 4630 and Catalog #2135.36)
2135.24	Ground Resistance Tester Model 4630 Kit – 500 ft (Model 4630 and Catalog #2135.37)



GROUND RESISTANCE TESTERS

SELECTION CHART

AEMC MODEL NUMBER	AEMC CATALOG NUMBER	RESISTANCE RANGE	POWER SOURCE	2 POINT TEST	3 POINT TEST	4 POINT/ SELECTIVE	SOIL RESISTIVITY TEST	EARTH COUPLING	2 CLAMP	BONDING	DISPLAY	VOLTAGE INDICATION	INDUCTANCE INDICATION	SWEEP FREQUENCY
6416	2141.01	0.01 to 1500Ω	Battery	Clamp-On Ground Resistance Tester w/Alarm and Memory				-	✓	✓**	Digital	Voltage Displayed (noise icon, buzzer)	✓	-
6417	2141.02	0.01 to 1500Ω	Battery	Clamp-On Ground Resistance Tester w/Alarm, Memory and Bluetooth communication				-	✓	✓**	Digital		✓	-
6418	2141.03	0.01 to 1200Ω	Battery	Clamp-On Ground Resistance Tester w/Alarm and Memory				-	✓	✓**	Digital	Noise Icon	-	-
6422	2135.55	0.05 to 50kΩ	Battery	✓	-			-	-	✓	Digital	Noise Icon	-	-
6422 Kit 150FT	2135.56	0.05 to 50kΩ	Rechargeable Battery	✓	-			-	-	✓	Digital	Noise Icon	-	-
6424	2135.57	0.05 to 50kΩ	Rechargeable Battery	✓	-			-	-	✓	Digital	Noise Icon	-	-
6424 Kit 150FT	2135.58	0.05 to 50kΩ	Rechargeable Battery	✓	-			-	-	✓	Digital	Noise Icon	-	-
6424 Kit 300FT	2135.59	0.05 to 50kΩ	Rechargeable Battery	✓	-			-	-	✓	Digital	Noise Icon	-	-
GroundFlex® Field Kit Model 6474	2136.03	0.001Ω to 99.99kΩ	Rechargeable Battery	-	✓			-	-	✓	Digital	Voltage Displayed	-	✓
6471 (SR182 probes not included)	2135.48	0.01 to 99.99kΩ	Rechargeable Battery	✓				-	✓***	✓	Digital	Voltage Displayed	-	-
6471	2135.49	0.01 to 99.99kΩ	Rechargeable Battery	✓				-	✓	✓	Digital	Voltage Displayed	-	-
6471 Kit 300FT	2135.50	0.01 to 99.99kΩ	Rechargeable Battery	✓				-	✓	✓	Digital	Voltage Displayed	-	-
6472	2135.51	0.01 to 99.99kΩ	Rechargeable Battery	✓				-	✓***	✓	Digital	Voltage Displayed	✓	-
6472 Kit 300FT	2135.53	0.01 to 99.99kΩ	Rechargeable Battery	✓				-	✓***	✓	Digital	Voltage Displayed	✓	-
6472 Kit 500FT	2135.54	0.01 to 99.99kΩ	Rechargeable Battery	✓				-	✓***	✓	Digital	Voltage Displayed	✓	-
4620	2130.43	0.0 to 1999Ω	Battery	✓	-	✓	-	-	-	-	Digital	LED/Buzzer	-	-
4620 Kit 150FT	2135.19	0.0 to 1999Ω	Battery	✓	-	✓*	-	-	-	-	Digital	LED/Buzzer	-	-
4620 Kit 300FT	2135.20	0.0 to 1999Ω	Battery	✓	-	✓	-	-	-	-	Digital	LED/Buzzer	-	-
4620 Kit 500FT	2135.21	0.0 to 1999Ω	Battery	✓	-	✓	-	-	-	-	Digital	LED/Buzzer	-	-
4630	2130.44	0.0 to 1999Ω	Rechargeable Battery	✓	-	✓	-	-	-	-	Digital	LED/Buzzer	-	-
4630 Kit 150FT	2135.22	0.0 to 1999Ω	Rechargeable Battery	✓	-	✓*	-	-	-	-	Digital	LED/Buzzer	-	-
4630 Kit 300FT	2135.23	0.0 to 1999Ω	Rechargeable Battery	✓	-	✓	-	-	-	-	Digital	LED/Buzzer	-	-
4630 Kit 500FT	2135.24	0.0 to 1999Ω	Rechargeable Battery	✓	-	✓	-	-	-	-	Digital	LED/Buzzer	-	-

* Performing soil resistivity tests with this kit requires two additional auxiliary electrodes not supplied in the 150 ft kit and one additional test lead.

** Clamp-on Ground Resistance Tester can measure system continuity inclusive of all bonding points.

*** Must purchase an additional (2) SR182 or (2) MN82 accessory clamps