

# 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
<b>ELECTRICAL</b>			
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



### 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)



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## 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