

# GROUND RESISTANCE TESTERS

## DIGITAL TESTER

### MODELS 4620 & 4630

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



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### 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

### SPECIFICATIONS

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



### PRODUCT INCLUDES

Soft carrying case, two 150ft color-coded leads on spools (red/blue), two 5ft color-coded leads (red/blue), one 30ft lead (green), two 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs and 100ft tape measure, batteries (4620 is C-cell & 4630 is rechargeable) and user manual

**Model 4630 Kit - 500 ft. shown**

### 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 - 150ft (Model 4620 and Catalog #2135.35)
2135.20	Ground Resistance Tester Model 4620 Kit - 300ft (Model 4620 and Catalog #2135.36)
2135.21	Ground Resistance Tester Model 4620 Kit - 500ft (Model 4620 and Catalog #2135.37)
2135.22	Ground Resistance Tester Model 4630 Kit - 150ft (Model 4630 and Catalog #2135.35)
2135.23	Ground Resistance Tester Model 4630 Kit - 300ft (Model 4630 and Catalog #2135.36)
2135.24	Ground Resistance Tester Model 4630 Kit - 500ft (Model 4630 and Catalog #2135.37)

### Accessories/Replacement - available on website store from [www.aemc.com](http://www.aemc.com)

2130.60	Tape Measure (100ft)
2135.35	Test Kit for 3-Point Testing - 150ft (see page 70 for descriptions)
2135.36	Test Kit for 4-Point Testing - 300ft (see page 70 for descriptions)
2135.37	Test Kit for 4-Point Testing - 500ft (see page 70 for descriptions)
2135.38	Ground Test Kit for 3-Point Testing (Supplemental for 4-Point testing - includes two 100ft color-coded leads, one 30ft lead (green), two 14.5" T-shaped auxiliary ground electrodes and soft carrying bag)
2130.59	Calibration Checker - 25Ω for Models 3640, 4500, 4610, 4620 and 4630

# 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 & Memory				—	—	✓**	Digital	Voltage Displayed (noise icon, buzzer)	✓	—
6417	2141.02	0.01 to 1500Ω	Battery	Clamp-On Ground Resistance Tester w/Alarm, Memory & Bluetooth communication				—	—	✓**	Digital	Voltage Displayed (noise icon, buzzer)	✓	—
Groundflex® Field Kit Model 6474	2136.03	0.001Ω to 99.99kΩ	Rechargeable Battery	—	✓	✓	✓	✓	—	✓	Digital	Value Displayed	—	✓
6471 (SR182 probes not included)	2135.48	0.01 to 99.99kΩ	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital	Value Displayed	—	—
6471	2135.49													
6471 Kit 300FT	2135.50													
6472	2135.51	0.01 to 99.99kΩ	Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓	Digital	Value Displayed	—	✓
6472 Kit 300FT	2135.53													
6472 Kit 500FT	2135.54													
4620	2130.43	0.0 to 1999Ω	Battery	✓	✓	—	✓	—	—	—	Digital	LED/Buzzer	—	—
4620 Kit 150FT	2135.19						✓*							
4620 Kit 300FT	2135.20	0.0 to 2000Ω	Battery	✓	✓	—	✓	—	—	—	Digital	LED/Buzzer	—	—
4620 Kit 500FT	2135.21	0.0 to 1999Ω												
4630	2130.44	0.0 to 1999Ω	Rechargeable Battery	✓	✓	—	✓	—	—	—	Digital	LED/Buzzer	—	—
4630 Kit 150FT	2135.22						✓*							
4630 Kit 300FT	2135.23						✓							
4630 Kit 500FT	2135.24						✓							

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

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