

GROUND RESISTANCE TESTERS

Digital Tester

Model 3640

Easy to use one button operation, performs ground resistance measurement with speed and accuracy



► SPECIFICATIONS

MODEL	3640		
Types of Measurements	2- and 3-Point		
Display	Digital		
Soil Resistivity Test	No		
Measurement Ranges	20Ω: 0.00 to 19.99Ω	200Ω: 20.0 to 199Ω	2000Ω: 200 to 1999Ω
Resolution	10mΩ	100mΩ	1Ω
Test Current	10mA	1mA	0.1mA
Open Voltage	42V peak		
Operating Frequency	128Hz square wave		
Accuracy	±3% of Reading ±3cts; ±5% of Reading ±3cts		
Interference	All models reject high levels of interference voltage (DC, 50 to 60Hz, harmonics)		
Power Source	Eight 1.5V AA batteries (included)		
Battery Life	Approx. 1800 15-second measurements		
Low Battery Indication	Yes		
Fuse Protection	High breaking capacity, 0.1A, >250V		



► FEATURES

- Ground Integrity® Measurement
- Measures ground resistance (2- and 3-Point) Fall-of-Potential method
- Large LCD digital display
- Designed to reject high levels of noise and interference
- Auto-Ranging: automatically selects the optimum range
- Battery powered
- Extremely simple to operate: connect - press - hold - read
- Error indicator lights
- Rugged dustproof and rainproof case
- Color-coded terminals and lead identification

► PRODUCT INCLUDES

Soft carrying case, eight 1.5V AA batteries and user manual.

► OPTIONAL KITS

150ft Kit

Catalog #2135.35

Test Kit for 3-Point testing includes carrying bag, 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.



300ft Kit

Catalog #2135.36

Test Kit for 4-Point testing includes carrying bag, two 300ft color-coded leads on spools (red/blue), two 5ft color-coded leads (red/blue), two 100ft color-coded leads (green and black), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs and 100ft tape measure.



500ft Kit

Catalog #2135.37

Test Kit for 4-Point testing includes carrying bag, two 500ft color-coded leads on spools (red/blue), two 5ft color-coded leads (red/blue), two 100ft color-coded leads (green and black), one 30ft lead (green), four 14.5" T-shaped auxiliary ground electrodes, one set of five spaded lugs and 100ft tape measure.



CATALOG NO.	DESCRIPTION
2114.92	Ground Resistance Tester Model 3640 (Digital, 3-Point)
2135.13	Ground Resistance Tester Model 3640 Kit – 150ft (Model 3640 and Catalog #2135.35)
2135.14	Ground Resistance Tester Model 3640 Kit – 300ft (Model 3640 and Catalog #2135.36)
2130.59	Calibration Checker – 25Ω for Models 3640, 4620 and 4630

GROUND RESISTANCE TESTER

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	—	—	—	—	—	—	—	—	—	—	—	
6471	2135.49			✓	✓	✓	✓	✓	✓	✓	Digital	Value Displayed	—	—	
6471 Kit 300FT	2135.50			—	—	—	—	—	—	—	—	—	—	—	—
6472	2135.51	0.01 to 99.99kΩ	Rechargeable Battery	—	—	—	—	—	—	—	—	—	—	—	
6472 Kit 300FT	2135.53			✓	✓	✓	✓	✓	✓	✓	Digital	Value Displayed	—	✓	
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	Battery	✓	✓	—	✓	—	—	—	Digital	LED/Buzzer	—	—	
4630	2130.44	0.0 to 1999Ω	Rechargeable Battery	—	—	—	✓	—	—	—	—	—	—	—	
4630 Kit 150FT	2135.22			—	—	—	✓*	—	—	—	—	Digital	LED/Buzzer	—	—
4630 Kit 300FT	2135.23			✓	✓	—	✓	—	—	—	—	—	—	—	—
4630 Kit 500FT	2135.24			—	—	—	✓	—	—	—	—	—	—	—	—
3640	2114.92	0.0 to 1999Ω	Battery	—	—	—	—	—	—	—	—	—	—	—	
3640 Kit 150FT	2135.13			✓	✓	—	—	—	—	—	Digital	LED	—	—	
3640 Kit 300FT	2135.14			—	—	—	—	—	—	—	—	—	—	—	—

* 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.