# **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





## **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 faulty 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

MODELS	4620		4630		
ELECTRICAL					
Range	20 Ω	200 Ω	2000 Ω		
Measurement Range	(0 to 19.99) Ω	(20 to 199.9) Ω	(200 to 1999) Ω		
Resolution	10 mΩ	100 mΩ	1 Ω		
Open Voltage	$\leq$ 42 V peak				
Measurement Frequency	128 Hz square wave				
Test Current	10 mA	1 mA	0.1 mA		
Accuracy	$\pm$ 2 % of Reading $\pm$ 1 ct $\pm$		$\pm5$ % of Reading $\pm3$ cts		
Aux Electrode Influence					
Max Res Current Circuit	3 kΩ	<b>30 k</b> Ω	50 kΩ		
Max Res Voltage Circuit	50 kΩ				
Response Time	Approximately four to eight seconds for a stabilized measurement				
Withstanding Voltage	250 Vac or 100 Vdc				
Power Supply	<i>(included)</i> ; Re		20 / 230) V, (50 / 60) Hz chargeable 9.6 V, 3.5 A·h /H battery pack <i>(included)</i>		
Battery Life	> 2000 15 s measurements; LO BAT indication on LCD				
Fuse Protection	0.1  A, > 250  V , (0.25 x 1.25) in; 30 kA Interrupt Capacity				

Consult factory for NIST Calibration prices.

### **PRODUCT INCLUDES**

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

## **ACCESSORIES/REPLACEMENTS**

### CAT. #2130.60

Tape Measure (100 ft)

CAT. #2135.35\* Test Kit for 3-Point Testing – 150 ft

CAT. #2135.36\*

Test Kit for 4-Point Testing – 300 ft CAT. #2135.37\*

Test Kit for 4-Point Testing – 500 ft

CAT. #5000.14 AC Power cord (Model 4630)

### **KIT SHOWN**

**4630 KIT (500 ft)** \*Refer to page 85 for Test Kit descriptions

#### CAT. #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 in T-shaped auxiliary ground electrodes and soft carrying bag)

#### CAT. #2130.59

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Calibration Checker 25  $\Omega$  for Models 3640, 4620 and 4630



_	<b>CAT.</b> #	DESCRIPTION	
1	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 CAT. #2135	5.35)
	2135.20	Ground Resistance Tester Model 4620 Kit - 300 ft (Model 4620 and CAT. #2135	5.36)
	2135.21	Ground Resistance Tester Model 4620 Kit - 500 ft (Model 4620 and CAT. #2135	5.37)
	2135.22	Ground Resistance Tester Model 4630 Kit - 150 ft (Model 4630 and CAT. #2135	5.35)
	2135.23	Ground Resistance Tester Model 4630 Kit - 300 ft (Model 4630 and CAT. #2135	5.36)
	2135.24	Ground Resistance Tester Model 4630 Kit – 500 ft (Model 4630 and CAT. #2135	5.37)

**AEMC**<sup>®</sup>