

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



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