

GROUND RESISTANCE TESTERS

MULTI-FUNCTION



GROUND FLEX® FIELD KIT

Test active tower grounds safely without de-energizing or disconnecting any cables

Unique in the industry!



DataView®

SPECIFICATIONS

MODELS		6472 & 6474						
ELECTRICAL	3-POINT METHOD	4-POINT SELECTIVE METHOD	GROUND MEASUREMENT WITH 2 CLAMPS	SOIL RESISTIVITY	GROUND POTENTIAL MEASUREMENT	DC RESISTANCE MEASUREMENT	MEASUREMENTS WITH 6474	
Range (Auto-Ranging)	.09 to 99.9kΩ	0.011 to 99.99kΩ	0.1 to 500Ω	0.01 to 99.9kΩ	0.01mV to 65.00V	0.02 to 99.99kΩ	0.067 to 99.99kΩ	
Resolution	0.01 to 100Ω	0.001 to 10Ω	0.01 to 1Ω	0.01 to 100Ω	0.01 to 10mV	2 wires: 0.01 to 100Ω 4 wires: 0.001 to 10Ω	0.001 to 10Ω	
Accuracy	±(2% + 1 count)		±(10% + 1 count)	±(2% + 1 count)	±(5% + 1 count)	±(2% + 2 counts)	±(5% + 1 count)	
No-Load Voltage	10, 16, 32 or 60Vrms					±16Vdc	10, 16, 32 or 60Vrms	
Measurement Frequency	41 to 5078Hz		Auto: 1611Hz Manual: 128Hz, 1367Hz, 1611Hz, 1758Hz	41 to 128Hz	41 to 5078Hz	DC	41 to 5078Hz	
Coupling Measurement	Yes		-					
Auxiliary Rod Resistance Measurement	0.14 to 99.9kΩ		-					0.14 to 99.9kΩ
Voltage Interference	Maximum 60Vpeak							
Soil Resistivity	-		Wenner and Schlumberger		-			
Type of Measurement	3 wires	4 wires	2 clamps	4 wires	3 wires	2 or 4 wires	GroundFlex®	
Measurement Current	> 200mAac		<26 ARMS (w/ SR182) <5 ARMS (w/ MN82)	> 200mAac		> 200mAac	> 200mAac	
MECHANICAL								
Memory/Communication	512-record memory / Optically isolated USB							
Dimensions/Weight	10.7 x 9.84 x 5.04" (272 x 250 x 128mm) / Model 6472: 7.05 lbs (3.2kg) / Model 6474: 5.07 lbs (2.3kg)							
Safety								
Safety Rating	50V CAT IV, complies with IEC 61326-1 / IEC 61010 / IEC 61557-1-4-5							
Ingress Protection	IP53 (cover closed)							

Consult factory for NIST Calibration prices

GROUND TESTER 6472 KIT-500FT - Catalog #2135.54

Includes meter, rechargeable NiMH batteries, optical USB cable, power adapter 110/240V with power cord 115V US, (2) 500 ft color-coded leads on spools (red/blue), (2) 100 ft color-coded leads (hand-tied, green/black), (1) 30 ft lead (green), (4) T-shaped auxiliary ground electrodes, (1) 100 ft AEMC® tape measure, DataView® software, ground tester workbook, a user manual on USB drive, (1) carrying bag for meter and (1) carrying bag for kit.

GROUND FLEX® FIELD KIT 6474

Catalog #2136.03 (includes Catalog #2135.54)

Includes GroundFlex® Adapter Model 6474, Ground Tester Model 6472, (4) GroundFlex® sensors (16ft/5m) with (12) color-coded rings, connection lead, (2) extension leads on H reel (black/green) with color-coded alligator clips, (1) extra black and green alligator clip, (6) BNC extension leads, (1) calibration loop, (3) C-clamps, a carrying case with wheels and handle for meters, carrying bag for meter and kit, (1) inverter 12Vdc to 120Vac 200 watt (vehicle use) and a user manual.

SHOWN: 6474 KIT



GROUND RESISTANCE TESTERS

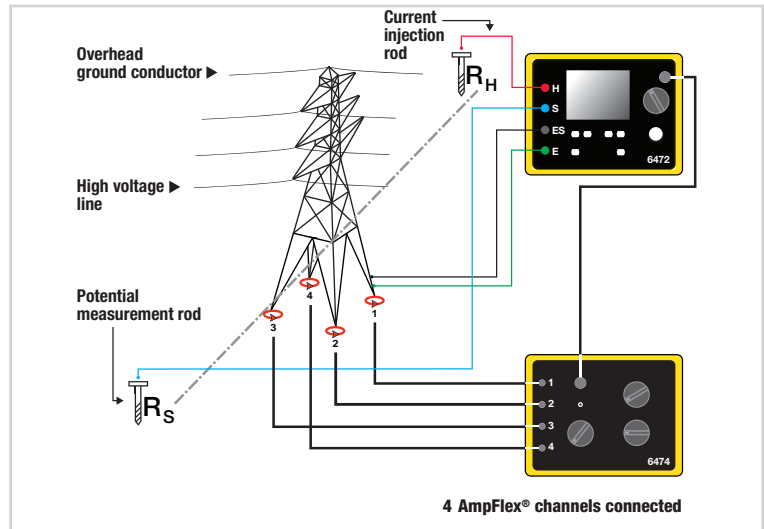
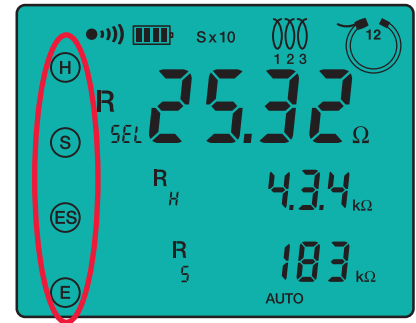
GROUND FLEX® FIELD KIT

FEATURES

- Ground Integrity Measurement
- 3- and 4-Point Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Point soil resistivity measurement with automatic calculation of Rho (ρ) and user selection of the Wenner or Schlumberger test method
- 2- and 4-Wire DC resistance measurement (Bond testing) with automatic polarity reversal
- 3-Point Earth coupling measurement
- Automatic frequency scan from 41 to 5078Hz for optimum test accuracy in electrically noisy environments
- Selectable test voltage limit of 10,16, 32, or 60V with up to 250mA of test current
- Automatic recognition of all electrode connections and measurement of their resistance value
- Determines bonding condition of overhead ground conductors
- Auto Power OFF management
- Optically isolated USB communication
- Remote set up and operation of all measurements using DataView® software supplied
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and water-resistant field case (IP53 rated in closed position)
- Includes DataView® software for data retrieval, real-time display, analysis, automatic report generation and system configuration

AUTOMATIC RECOGNITION AND DISPLAY OF INPUT CONNECTIONS TO MATCH TEST

The connections are displayed and flash if incorrect or absent for the test selected.



GROUND MEASUREMENT ON TOWERS WITH GROUND CABLE

High-voltage lines are usually equipped with a ground cable to allow lightning to discharge to ground via the tower. As all the towers are connected to this conductor, all the tower's resistances are in parallel. This means it is impossible to measure tower resistance using traditional 3-Point methods unless the ground cable is disconnected, which is a dangerous and time-consuming operation.

ACCESSORIES

CAT #2135.87

GroundFlex® Sensor
32 ft (10m)
(Model 6474 only)

CAT #2135.90

GroundFlex® Sensor
75 ft (22.8m)
(Model 6474 only)

CAT #2135.91

GroundFlex® Sensor
150 ft (45.7m)
(Model 6474 only)

CAT #2135.72

Model SR182
AC Current Probe
(Models 6471 & 6472)

CAT #2135.86

Lead – BNC 150 ft (45m)
M/F Extension Lead
(Model 6474 only)



CATALOG NO.

DESCRIPTION

2136.03

GroundFlex® Field Kit Model 6474 (Includes Cat. #2135.54)

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