

GROUND RESISTANCE TESTERS

MULTIFUNCTION



cover
closed

MODEL 6472

Use under difficult conditions such as the presence of high stray currents that normally affect accuracy



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The Model 6472 provides an automated way to measure the value of the earth/ground using the Fall-of-Potential method and storing measurements.

PRODUCT INCLUDES

Carrying bag, (110/240) V power adapter with US power cord, optical USB cable, rechargeable NiMH battery, and a USB drive with DataView® software, ground tester workbook and user manual.

TEST KITS

6472 METER

300 ft Kit: CAT. #2135.53

500 ft Kit: CAT. #2135.54 (shown)

Refer to page 87 for

Model 6472 Kit descriptions

CAT. #2135.35, #2135.36 and #2135.37



2 probes required to perform stakeless testing

MODEL	6472
ELECTRICAL	
2-Clamp Measurement	
Range	(0.1 to 500) Ω
Resolution	(0.01 to 1) Ω
Measurement Frequency	Auto: 1611 Hz Manual: (128, 1367, 1611, or 1758) Hz
3-Point Measurement	
Range (Auto-Ranging)	0.09 Ω to 99.9 k Ω
Resolution	(0.01 to 100) Ω
Test Voltage	Nominal (10, 16, 32 or 60) Vrms user selectable
Resistance Measurement Frequency	(41 to 5078) Hz automatic or user selectable
Test Current	Up to 250 mA
Accuracy	$\pm 2\%$ of Reading + 1 ct @ 128 Hz
Soil Resistivity 4-Point Measurement	
Test Method	Wenner or Schlumberger selectable with automatic calculation of test results in Ω -meters
Range (Auto-Ranging)	(0.01 to 99.9) k Ω ; ρ max: 999 k Ω m
Resolution	(0.01 to 100) Ω
Test Voltage	(10, 16, 32 or 60) V user selectable
Frequency	From (41 to 128) Hz selectable
External Voltage Measurement	
Range (Auto-Ranging)	(0.1 to 65) V _{AC/DC} – DC to 440 Hz
Accuracy	$\pm 2\%$ of Reading + 1 ct
Resistance Measurement (Bond Testing)	
Measurement Type	2-Pole (with lead resistance compensation) or 4-Pole (Kelvin sensing) user selectable.
Range (Auto-Ranging)	2-Pole 0.12 Ω to 99.99 k Ω ; 4-Pole 0.02 Ω to 99.99 k Ω
Accuracy	$\pm 2\%$ of Reading + 2 cts
Test Voltage	16 V _{DC} (+, - or auto polarity)
Test Current	Up to 250 mA max
Data Storage	
Memory Capacity	512 test results (64 kB)
Communication	Optically Isolated USB
Power Supply	9.6 V rechargeable battery pack (included)
Recharging Source	(110 / 220) V, (50 / 60) Hz external charger with 18 V _{DC} , 1.9 A output

Consult factory for NIST Calibration prices.

ACCESSORIES



MN82 CURRENT PROBE
(2 mA to 10 Arms)
CAT. #2135.71



SR182 CURRENT PROBE
(0.5 mA to 40 Arms)
CAT. #2135.72



REEL CADDY
CAT. #2135.85 Set of (2), for use with ground kit spools



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GROUND RESISTANCE TESTERS

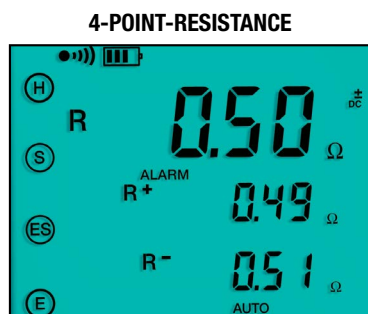
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FEATURES

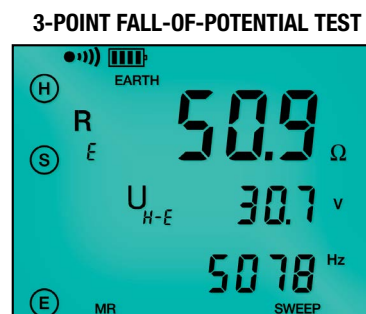
- Ground Resistance testing using the 2-clamp method (*no auxiliary rods needed*)
- 2- and 4-Point Resistance/Continuity measurement (*DC Resistance*) with automatic polarity reversal
- 3-Point Fall-of-Potential measurement with manual or automatic frequency selection
- 4-Point Soil Resistivity measurement with automatic calculation of Rho (ρ) and user selection of the Wenner or Schlumberger test method
- 3-Point Earth Coupling measurement
- Manual and automatic frequency scan from (41 to 5078) Hz for optimum test accuracy in electrically noisy environments
- Selectable test voltage of (10, 16, 32 or 60) V up to 250 mA of test current (*model dependent*)
- Auto Power OFF feature
- Automatic recognition of all electrode connections and their resistance value
- Stores up to 512 complete test results in internal memory
- Display with automatic backlight when entering a function
- Optically isolated USB communication cable included
- Rechargeable NiMH batteries from wall charger or vehicle power (*CAT. #2135.43 needed for vehicle power*)
- Rugged dustproof and water-resistant field case (*IP53 rated in closed position*)
- Grounding standards IEC 61557 parts 4 and 5 compliant
- Includes DataView® software for set up, data retrieval, real-time display, analysis, report generation and system configuration
- Can also be used for Continuity tests on bonding

2 probes required to perform stakeless testing.

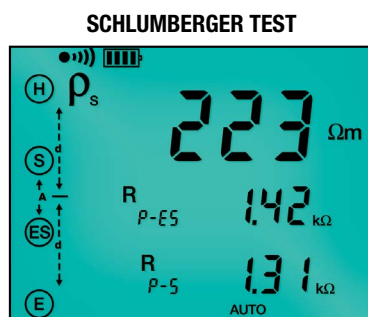
LARGE FUNCTIONAL DISPLAYS



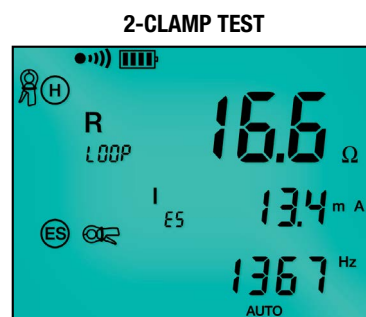
The 4-Point test shows lead connections, Continuity test results, test voltage and current.



The 3-Point Fall-of-Potential test displays test lead connection, grounding rod resistance and test electrode resistances.



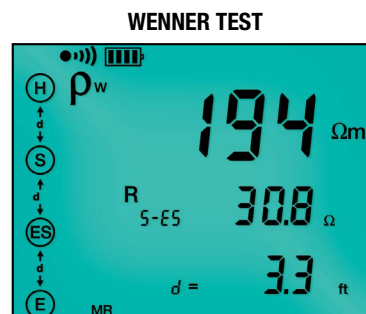
The Schlumberger test displays test lead connection, soil resistivity (ρ) test results and electrode spacing.



The 2-Clamp method displays clamp connection resistance, test current and frequency.



Memory Recall displays test results stored at a specific memory location.



The Wenner test displays test lead connection, soil resistivity (ρ) test results, electrode spacing and resistance.

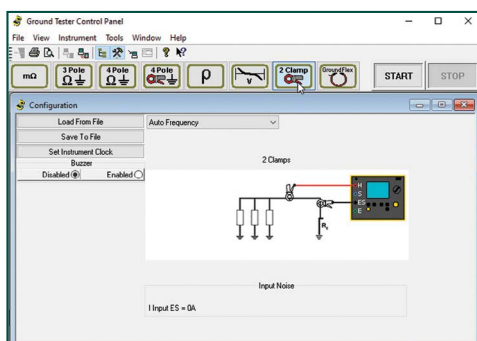
CAT. #	DESCRIPTION
2135.48	Ground Resistance Tester Model 6471 (Digital, 3-Point, 4-Point, Clamp-on (SR182 probes not included), DataView® Software)
2135.49	Ground Resistance Tester Model 6471 (Digital, 3-Point, 4-Point, Clamp-on, (includes 2-SR182 probes), DataView® Software)
2135.50	Ground Resistance Tester Model 6471 Kit – 300 ft (CAT. #2135.49 and CAT. #2135.36)
2135.51	Ground Resistance Tester Model 6472 (Digital, 2-Point, 3-Point, 4-Point, Bond Test, DataView® software)
2135.53	Ground Resistance Tester Model 6472 Kit – 300 ft (CAT. #2135.51 and CAT. #2135.36)
2135.54	Ground Resistance Tester Model 6472 Kit – 500 ft (CAT. #2135.51 and CAT. #2135.37)
2135.60	Ground Resistance Tester Model 6471 Kit – 300 ft w/o Probes (CAT. #2135.48 and CAT. #2135.36)
2135.61	Ground Resistance Tester Model 6471 Kit – 500 ft w/o Probes (CAT. #2135.48 and CAT. #2135.37)

GROUND RESISTANCE TESTERS

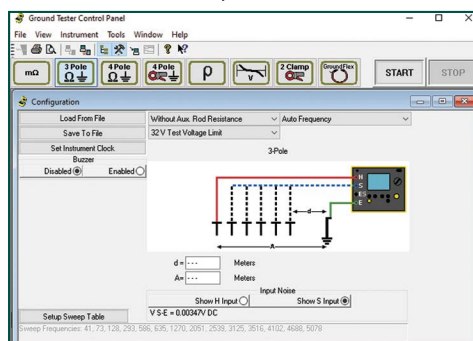
MULTIFUNCTION

GROUND TESTERS MODELS 6471 & 6472 — *TYPICAL DATAVIEW® FUNCTIONAL DISPLAYS*

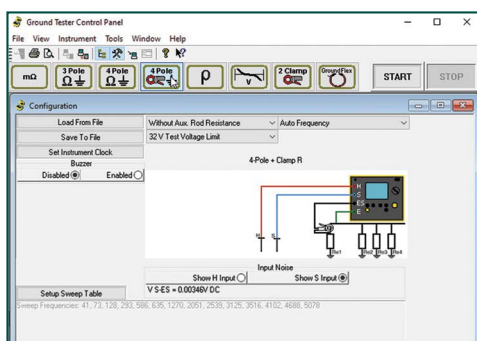
2-CLAMP METHOD SETUP



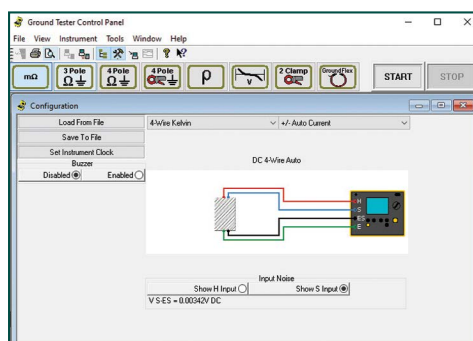
FALL-OF-POTENTIAL, STEP-TOUCH POTENTIAL



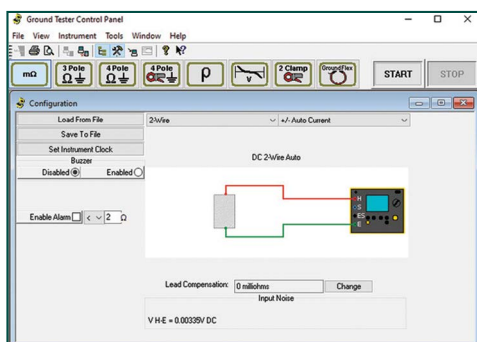
SELECTIVE 3-POINT TESTING OF MULTIPLE RODS



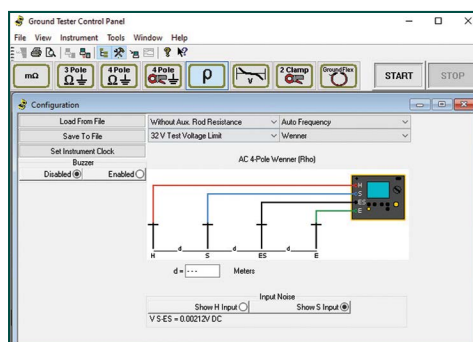
4-POINT-RESISTANCE



2-POINT-RESISTANCE



SOIL RESISTIVITY



OPTIONAL KITS

150 FT KIT

CAT. #2135.35

Test Kit for 3-Point testing includes carrying bag, (2) 150 ft color-coded (red/blue) leads on spools, (2) 5 ft color-coded (red/blue) leads, (1) 30 ft lead (green), (2) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.



300 FT KIT

CAT. #2135.36

Test Kit for 4-Point testing includes carrying bag, (2) 300 ft color-coded (red/blue) leads on spools, (2) 5 ft color-coded (red/blue) leads, (2) 100 ft hand-tied color-coded leads (green/black), (4) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.



500 FT KIT

CAT. #2135.37

Test Kit for 4-Point testing includes carrying bag, (2) 500 ft color-coded (red/blue) leads on spools, (2) 5 ft color-coded (red/blue) leads, (2) 100 ft hand-tied color-coded (green/black) leads, (1) 30 ft lead (green), (4) 14.5 in T-shaped auxiliary ground electrodes, a set of (5) spaded lugs and (1) 100 ft tape measure.

