

GROUND RESISTANCE TESTERS

MULTIFUNCTION



cover closed

MODEL 6471

Test ground resistance without the need of auxiliary rods or with the 3- and 4-Point methods



DataView®



SCAN TO LEARN MORE



GROUND RESISTANCE MEASUREMENT USING 2 PROBES

For systems with parallel ground connections, Models 6471 and 6472 are capable of accurately measuring a ground resistance using probes only. This method involves placing 2 probes around the ground conductor to be tested and connecting them each to the instrument. One probe injects a known signal (32 V/1611 Hz) while the other probe measures the current circulating in the loop. This method saves considerable time when ground testing because it is no longer necessary to set up auxiliary rods or to disconnect the ground connector.

PRODUCT INCLUDES

CAT. #2135.48 MODEL 6471 (without probes)

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.

CAT. #2135.49 MODEL 6471 (with probes)

Carrying bag, set of (2) SR182 current probes, (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.

KIT SHOWN 300 FT KIT: CAT. #2135.50

Carrying bag for kit, (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 (green/black) leads, set of (2) SR182 current probes, (110/240) V power adapter with US power cord, optical USB cable, (4) T-shaped auxiliary ground electrodes, set of (5) spaded lugs, 100 ft tape measure, rechargeable NiMH battery, and a USB drive with DataView® software, ground tester workbook and user manual.



2 probes required to perform stakeless testing

MODEL	6471
ELECTRICAL	
2-Clamp Measurement	
Range	(0.10 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 kΩ
Resolution	(0.01 to 100) Ω
Test Voltage	Nominal (16 or 32) Vrms user selectable
Resistance Measurement Frequency	(41 to 513) Hz automatic or user selectable
Test Current	Up to 250 mA
Accuracy	± 2 % of Reading + 1 ct @ 128 Hz
Soil Resistivity 4-Point Measurement	
Test Method	Wenner or Schlumberger selectable with automatic calculation in Ω-meters.
Range (Auto-Ranging)	(0.01 to 99.9) kΩ; ρ max: 999 kΩm
Resolution	(0.01 to 100) Ω
Test Voltage	(16 or 32) 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	± 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 to 99.99) kΩ; 4-Pole (0.02 to 99.99) kΩ
Accuracy	± 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

REEL CADDY

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



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



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