

EARTH GROUND RESISTANCE TESTER

2/3 POINT FALL OF POTENTIAL

Employs the 3 Pole FOP (Fall of Potential) method to verify ground rod performance.

Tests for:

- Earth voltage,
- Bond Resistance with 0.01-ohm resolution,
- Rod Resistance with 20, 200- and 2000-ohm Ranges.

Features:

- Measures ground rod resistance using 3-poles
- Measures earth voltage
- Does not trip ground fault breakers in the circuit under test
- Includes test leads and electrodes
- Zero ohm adjustment
- Data hold function
- Low battery indication

Accessories included:

- Hard Case
- Test leads (red-33m, yellow-33m, green-5m)
- Two Auxiliary earth spikes
- Simplified measurement probe
- Instruction manual
- (8) 1.5V (AA) batteries.



61-796



Earth Spikes, Test Leads, & Measurement Probe Included

THE ELECTRICIAN'S
CHAMPION™ **IDEAL**®

EARTH GROUND RESISTANCE TESTER

2/3 POINT FALL OF POTENTIAL

General Specifications

Characteristics	Description
Display	LCD 3-1/2 with 2000 counts, maximum display count of 1900
Over-range Indication	"1" in Most Significant Digit (MSD)
Operation Frequency of Ω Current	820Hz to 1.6kHz at approx. 2mA.
Earth Resistance Range	20 Ω /200 Ω /2000 Ω
Resistance Resolution	0.00 - 19.99 (0.01 Ω)
	00.0 - 199.9 (0.1 Ω)
	000 - 1999 (1 Ω or .001K Ω)
Earth Resistance Accuracy	$\pm$ (2% reading + 2 digits) or $\pm$ 0.1 Ω
Max Earth Voltage	0-200V AC, 40-500Hz
Earth Voltage Accuracy	$\pm$ (1% reading + 2 digits)
Power on/off	Switch only / No auto power off mode
Low Battery Indicator	 Symbol indicates low battery voltage
Data Hold Indicator	 Symbol indicates data hold
Power	8 x 1.5V AA Batteries (Alkaline preferred)
Applicable Standards	IEC/EN 61010-1; (CAT III 200V) pollution degree 2
Dimensions	8.3"H x 8.3"W x 4.0"D
Weight:	Approximately 3.0 lbs. (1361g) including battery
Storage Environment	32°F to 122°F at <80% relative humidity
Operating Environment: Relative Humidity	32°F to 104°F 80% Relative Humidity
Accessories Included	Hard Case, Test Lead Set (red-33m, yellow-33m, green-5m); Red 1m dual input jack to alligator clip adapter lead, 2 Auxiliary earth spikes and Instruction Manual

Ranges & Accuracy Specification

Measurement Characteristics

(All at 75°F $\pm$ 41°F, <80% R.H.) Measurement accuracy is expressed as $\pm$ (% reading + digits) in the resistance and voltage functions.

Resistance

Range	Measuring Range	Resolution	Accuracy
20 Ω	0.00 Ω - 19.99 Ω	0.01 Ω	$\pm$ (2% reading + 2 digits) ¹
200 Ω	00.0 Ω - 199.9 Ω	0.1 Ω	$\pm$ (2% reading + 2 digits)
2000 Ω	000 Ω - 1999 Ω	1 Ω or 0.001K Ω	$\pm$ (2% reading + 2 digits) ¹

¹Error is $\pm$ 2 digits or $\pm$ 0.1 Ω , whichever is greater

Operation frequency of current is 820Hz to 1.6Hz at approx. 2mA.

Earth Voltage Potential

Range	Measuring Range	Resolution	Accuracy
0-200V AC	00.0 - 199.9V	.1mV	$\pm$ (1.0% + 2 digits)



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