

ERITECH® EST401 Ground Resistance Tester

Features

- Offers fast and simple clamp-on operation
- Requires no leads, auxiliary rods or spacing requirements
- Provides a direct ground resistance reading of 0.1 to 1200 Ohms
- Gives direct continuity and ground loop resistance readings
- Offers direct ground leakage or phase current readings from 1mA to 30 Arms
- Accommodates 1000 MCM cables (1.25 in./ 32 mm window) with its expansive jaw design
- Has power management with Auto-Off
- Resists breakage with durable head and body construction
- Is designed to EN 61010-1, Cat III safety standards
- Includes carrying case, user's manual, battery and calibration loop



The handheld ERITECH® EST401 Ground Resistance Tester measures ground rod and small grid resistance in any season without the use of auxiliary ground rods. The clamp-on ground resistance tester from ERICO® can be used in multi-grounded systems without disconnecting the ground under test. By performing measurements on intact ground systems, the user can measure the resistance to ground and verify the quality of the grounding connections and bonds. Resistance and continuity of grounding loops around pads and buildings may also be measured with the tester.

The ERITECH EST401 includes a current measurement function. The probe's high sensitivity enables measurement of current leakage flowing to ground or circulating in ground loops down to 1mA and neutral currents to 30Arms. This feature provides additional information that is becoming vital as distribution ground networks carry higher levels of noise and harmonics, which affect power quality.

The ERITECH EST401 has a rugged Lexan® body for durability. A double-walled Lexan shell (or equivalent polycarbonate) encases the probe heads for extra strength. Overall construction and mechanical design ratings such as drop test, weatherproofing against water projections, shock and vibration meet or exceed IEC (International Electrotechnical Commission) standards. The product has been designed to meet IEC 1010.

Battery life information is given at power-up and Auto-Off for power management. Additional features such as resistance and current measurement are displayed on the large LCD.

The ERITECH EST401 is ideal for measuring ground current and ground resistance at pole ground rods, service entrances, pad-mounted transformers, transmission towers, service panels, phone pedestals and central office locations. Extended distances between installations such as high-tension towers will not adversely affect the measurement results.



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Ground Resistance	Measurement Range	Resolution	Accuracy (% of Reading)
Auto-Ranging 0.01 to 1200 Ohm	0.1 to 1.0 Ohm	0.01 Ohm	± (2.0% ± 0.02Ω)
	1.0 to 50.0 Ohm	0.1 Ohm	± (1.5% ± 0.02Ω)
	50.0 to 100 Ohm	0.5 Ohm	± (2.0% ± 0.05Ω)
	100 to 200 Ohm	1 Ohm	± (3.0% ± 1.0Ω)
	200 to 400 Ohm	5 Ohm	± (6.0% ± 5.0Ω)
	400 to 600 Ohm	10 Ohm	± (10.0% ± 10.0Ω)
	600 to 1200 Ohm	50 Ohm	Not Rated
Current Measurement	1 to 299mA	1mA	± (2.5% + 2μA)
Auto-Ranging	0.300 to 2.999A	.001A	± (2.5% + 2μA)
1mA to 30.0Arms	3.00 to 29.99A	.01A	± (2.5% + 20μA)
Resistance Measurement Frequency	2403Hz		
Current Measurement Frequency	47 to 800Hz		
Current Overload	OL displayed above 29.99Arms		
Power Source	9V Alkaline battery		
	Battery life: 8 Hrs or approx. 1000 measurements of 30 seconds		

Functions	
Ohms Range	X
Arms Range	X
Hold Function	X
Self test	X
Auto-Off	X
Battery Life Indicator	X
Noise Indicator	X
Open Jaw Indicator	X
Multi-Tone Beeper	X



ERITECH[®] EST401 in carrying case with battery and user's manual.

WARNING

ERICO products shall be installed and used only as indicated in ERICO's product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

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