



Ground Resistance Tester Model 6417

Cat. #2141.02

Range 0 to 1500Ω, Alarm, Frequency selection, 2000 measurement storage, Bluetooth

The Ground Resistance Tester Model 6417 measures ground rod and grid resistance and impedance without the use of auxiliary rods. Clamp-on ground resistance testers can be used in multi-grounded systems without disconnecting or de-energizing the ground system under test. The Model 6417 simply clamps around the grounding electrode or conductor and measures the resistance to ground. Includes Bluetooth for connecting to a computer running DataView, and an app for communication with an Android device.

Ground Tester | Ground Rod Tester | Earth Ground Tester | Ground Continuity Tester | Ground Wire Tester


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Ground Resistance Measurement (Auto-Ranging 1 to 199Ω)		
Measurement Range	Resolution	Accuracy
(0.010 to 0.099) Ω	0.001 Ω	±(1.5 %Reading +0.01 Ω)
(0.10 to 0.99) Ω	0.01 Ω	±(1.5 %Reading +0.02 Ω)
(1 to 49.9) Ω	0.1 Ω	±(1.5 % Reading +0.1 Ω)
(50.0 to 99.5) Ω	0.5 Ω	±(2 % Reading +0.5 Ω)
(100 to 199) Ω	1 Ω	±(3 % Reading +1 Ω)
(200 to 395) Ω	5 Ω	±(5 % Reading +5 Ω)
(400 to 590) Ω	10 Ω	±(10 % Reading +10 Ω)
(600 to 1150) Ω	50 Ω	20 % approx.
(1200 to 1500) Ω	50 Ω	25 % approx.
Alarm	Adjustable from (1 to 199) Ω	
Frequency Selection	Choice of (50, 60, 128, or 2083) Hz for impedance calculation	
Maximum Overload	Permanent current: 100 max. 50/60 Hz Transient current: (<5 s) 200 A 50/60 Hz	
Current Measurement Range (Auto-Ranging)		
Measurement Range	Resolution	Accuracy
(0.200 to 0.999) mA	1μ A	±(2 % Reading +50 μA)
(1.000 to 2.990) mA	10 μA	±(2 % Reading +50 μA)

For more details, download the datasheet or user manual at www.aemc.com

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(3.00 to 9.99) mA	10 μ A	$\pm(2 \% \text{ Reading} + 50 \mu\text{A})$
(10.00 to 29.99) mA	100 μ A	$\pm(2 \% \text{ Reading} + 100 \mu\text{A})$
(30.0 to 99.9) mA	100 μ A	$\pm(2 \% \text{ Reading} + 100 \mu\text{A})$
(100 to 299.9) mA	1 mA	$\pm(2 \% \text{ Reading} + 1 \text{ mA})$
(0.300 to 0.990) A	1 mA	$\pm(2 \% \text{ Reading} + 1 \text{ mA})$
(1.000 to 2.999) A	10 mA	$\pm(2 \% \text{ Reading} + 10 \text{ mA})$
(3.00 to 39.99) A	10 mA	$\pm(2 \% \text{ Reading} + 10 \text{ mA})$
Loop Inductance Measurement		
Measurement range	Resolution	Accuracy
(10 to 100) μ H	1 μ H	$\pm(5 \% \text{ Reading} + 1 \mu\text{H})$
(100 to 500) μ H	1 μ H	$\pm(3 \% \text{ Reading} + 1 \mu\text{H})$
Contact Voltage (Touch Voltage) Calculated		
Measurement range	Resolution	Accuracy
(0.1 to 4.9) V	0.1 V	$\pm(5 \% \text{ Reading} + 0.1 \text{ V})$
(5.0 to 49.5) V	0.5 V	$\pm(5 \% \text{ Reading} + 0.5 \text{ V})$
(50 to 75.0) V	1 V	$\pm(10 \% \text{ Reading} + 1 \text{ V})$
General Features		
Display	OLED, 152 segments (48x39) mm	
Memory	2000 measurements	
Communication	Bluetooth, DataView software included	
Alarm	3 separate alarms (Ω , V and A)	
Power Source	(4) x1.5 V LR6 (AA) alkaline batteries or 4 NiMH batteries	
Battery Life	12 hours or 1440 30-seconds tests approx.	
Jaw Opening	1.38 in (35mm) max	
Dimensions	(2.16 x 3.74 x 10.31) in (55 x 95 x 262) mm	
Weight (with Battery)	2.06 lbs (935 g)	
Operating Temperature	(-4° to +131) °F (-20 to +55) °C	
Storage Temperature	(-22° to +158) °F (-30 to +70) °C	
Relative Humidity	Up to 90 % @ 40 °C	
Ingress Protection (IP)	IP 40	
EMC	EN 61326-1	
Safety Compliance	IEC 61010-1, EN 61010-2-30, EN 61010-2-32, Pollution Degree 2, 600 V CAT IV 	

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