



Ground Resistance Tester Model 6417

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


Measure ground rod and grid resistance and impedance without the use of auxiliary rods. Model 6417 operates on multi-grounded systems without disconnecting or de-energizing the ground system under test. Simply clamp it around the grounding electrode or conductor to measure the resistance to ground. Includes Bluetooth for connecting to a computer running our proprietary DataView[®] software, and an app for communication with Android[™] devices. Cat. #2141.02

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

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

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1.000 to 2.990mA	10µA	±(2% Reading +50µA)
3.00 to 9.99mA	10µA	±(2% Reading +50µA)
10.00 to 29.99mA	100µA	±(2% Reading +100µA)
30.0 to 99.9mA	100µA	±(2% Reading +100µA)
100 to 299.9mA	1mA	±(2% Reading +1mA)
0.300 to 0.990A	1mA	±(2% Reading +1mA)
1.000 to 2.999A	10mA	±(2% Reading +10mA)
3.00 to 39.99A	10mA	±(2% Reading +10mA)
Loop Inductance Measurement		
Measurement range	Resolution	Accuracy
10 to 100µH	1µH	±(5% Reading +1µH)
100 to 500µH	1µH	±(3% Reading +1µH)
Contact Voltage (Touch Voltage) Calculated		
Measurement range	Resolution	Accuracy
0.1 to 4.9V	0.1V	±(5% Reading +0.1V)
5.0 to 49.5V	0.5V	±(5% Reading +0.5V)
50 to 75.0V	1V	±(10% Reading +1V)
General Features		
Display	OLED, 152 segments 48x39mm	
Memory	2000 measurements	
Communication	Bluetooth, DataView software included	
Alarm	3 separate alarms (Ω, V and A)	
Power Source	4x1.5V LR6 (AA) alkaline batteries or 4 NiMH batteries	
Battery Life	12 hours or 1440 30-seconds tests approx.	
Jaw Opening	1.38" (35mm) max	
Dimensions	2.16 x 3.74 x 10.31" (55 x 95 x 262mm)	
Weight (with Battery)	2.06 lbs (935g)	
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, 600V CAT IV 	

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