



Ground Resistance Tester Model 6418

Cat. #2141.03


Range 0 to 1200Ω, Alarm, 300 measurement storage

The Ground Resistance Tester Model 6418 measures ground rod, busbar, 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 6418 simply clamps around the grounding electrode or conductor and measures the resistance to ground.

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

Ground Resistance Measurement		
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 149Ω	1Ω	±(2.5% Reading +2Ω)
150 to 245Ω	5Ω	±(5% Reading +10Ω)
250 to 440Ω	10Ω	±(10% Reading +20Ω)
450 to 640Ω	10Ω	±(15% Reading +20Ω)
650 to 1200Ω	50Ω	±(20% Reading +100Ω)
Test Frequency	2083Hz	
Maximum Overload	Permanent current: 100 max. 50/60Hz; 20A at 800Hz	
Current Measurement Range (Auto-Ranging)		
Measurement Range	Resolution	Accuracy
0.50 to 9.995mA	50μA	±(2% Reading +200μA)
10.00 to 99.90mA	100μA	±(2% Reading +100μA)
100.0 to 299.0mA	1mA	±(2% Reading +1mA)
0.300 to 2.990A	10mA	±(2% Reading +10mA)
3.000 to 20.00A	100mA	±(2% Reading +100mA)
General Features		
Display	OLED, 152 segments 48x39mm	
Memory	300 measurements	

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

Alarm	2 separate alarms (Ω 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	1.26" (32mm) max or 1.18 - 1.57" (30 x 40mm) or 0.79 x 2.17" (20 x 55mm) bar
Dimensions	11.8 x 4.2 x 2.2" (300 x 106 x 56mm)
Weight (with Battery)	2.6 lbs (1.2Kg)
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 61010-2-32, Pollution Degree 2, 100V CAT IV 

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