



Ground Resistance Tester Model 6418

Range (0 to 1200) Ω , 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. Simply clamp it around the grounding electrode or conductor and measures the resistance to ground.

Cat. #2141.03

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| Ground Resistance Measurement | | |
|--|---|--|
| Measurement Range | Resolution | Accuracy |
| 0.010 to 0.099 Ω | 0.001 Ω | $\pm(1.5\% \text{Reading} + 0.01\Omega)$ |
| 0.10 to 0.99 Ω | 0.01 Ω | $\pm(1.5\% \text{Reading} + 0.02\Omega)$ |
| 1 to 49.9 Ω | 0.1 Ω | $\pm(1.5\% \text{Reading} + 0.1\Omega)$ |
| 50.0 to 149 Ω | 1 Ω | $\pm(2.5\% \text{Reading} + 2\Omega)$ |
| 150 to 245 Ω | 5 Ω | $\pm(5\% \text{Reading} + 10\Omega)$ |
| 250 to 440 Ω | 10 Ω | $\pm(10\% \text{Reading} + 20\Omega)$ |
| 450 to 640 Ω | 10 Ω | $\pm(15\% \text{Reading} + 20\Omega)$ |
| 650 to 1200 Ω | 50 Ω | $\pm(20\% \text{Reading} + 100\Omega)$ |
| 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 | 50 μA | $\pm(2\% \text{Reading} + 200\mu\text{A})$ |
| 10.00 to 99.90mA | 100 μA | $\pm(2\% \text{Reading} + 100\mu\text{A})$ |
| 100.0 to 299.0mA | 1mA | $\pm(2\% \text{Reading} + 1\text{mA})$ |

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

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| | | |
|--------------------------------|--|----------------------|
| 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 | |
| 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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