

GROUND RESISTANCE TESTERS

CLAMP-ON



MODEL 6418

Designed for measuring ground impedance on ground rods and bus bars



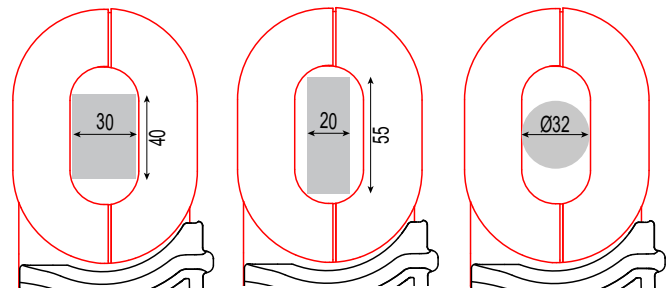
FEATURES

- Ground Integrity Measurement
- Large multifunction bright yellow OLED (*organic LED display*) (1.89 x 1.55) in (48 x 39) mm
- Clamping diameter accommodates both cable and bus bar
- Storage of measurements (Ω and/or A, with time-stamping)
- Up to 300 measurements stored
- View stored measurements on the OLED display
- Auto Power OFF function
- Auto HOLD
- Alarm function with adjustable set point and buzzer for quick field checks for amps and ohms
- Rugged Lexan® head and body construction resists breakage
- Alarm settings and stored memory information saved during shutdown
- Noise icon and buzzer alerts the user to presence of dangerous current levels
- Designed to EN 61010-1, 100 V CAT IV and 150 V CAT III safety standards
- Automatic calibration of the jaw gap at power-up

| MODEL | 6418 | | |
|-------------------------------|--|-------------------|---|
| ELECTRICAL | | | |
| | Measurement Range | Resolution | Accuracy (% of Reading) |
| Ground Resistance | (0.010 to 0.099) Ω | 0.001 Ω | $\pm 1.5\% \pm 0.01 \Omega$ |
| | (0.10 to 0.99) Ω | 0.01 Ω | $\pm 1.5\% \pm 0.02 \Omega$ |
| | (1 to 49.9) Ω | 0.1 Ω | $\pm 1.5\% \pm 0.2 \Omega$ |
| | (50 to 149) Ω | 1 Ω | $\pm 2.5\% \pm 2 \Omega$ |
| | (150 to 245) Ω | 5 Ω | $\pm 5\% \pm 10 \Omega$ |
| Auto Ranging | (250 to 440) Ω | 10 Ω | $\pm 10\% \pm 20 \Omega$ |
| | (450 to 640) Ω | 10 Ω | $\pm 15\% \pm 20 \Omega$ |
| | (650 to 1200) Ω | 50 Ω | $\pm 20\% \text{ Reading} + 100 \Omega$ |
| Measurement Frequency | 2083 Hz | | |
| Current Measurement | (0.50 to 9.950) mA | 50 μA | $\pm 2\% + 200 \mu\text{A}$ |
| | (10 to 99.90) mA | 100 μA | $\pm 2\% + 100 \mu\text{A}$ |
| | (100 to 299) mA | 1 mA | $\pm 2\% \pm 1 \text{ mA}$ |
| Auto Ranging 1 mA to 20 A | (0.300 to 2.990) A | 10 mA | $\pm 2\% \pm 10 \text{ mA}$ |
| | (3.000 to 20) A | 100 mA | $\pm 2\% \pm 100 \text{ mA}$ |
| Current Measurement Frequency | (47 to 800) Hz | | |
| Current Overload | OL displayed above 19.99 Arms | | |
| Power Supply | (4) 1.5 V LR6 (AA) alkaline batteries or (4) NiMH batteries; Battery life: 12 h, or 1440 30 s Measurements approx. | | |

Consult factory for NIST Calibration prices.

CLAMPING CHARACTERISTICS



PRODUCT INCLUDES

Hard carrying case, 5 Ω calibration loop, (4) 1.5 V AA batteries, wrist strap and a user manual.



CAT.

DESCRIPTION

2141.03

Ground Resistance Tester Model 6418 (Clamp-On, Alarm, Memory, Oblong Jaws)

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FUNCTIONAL DISPLAYS (MODEL DEPENDENT)



MEASUREMENT RESULTS



Displays the leakage current and loop impedance at the test frequency

MEMORY RECALL MODE



Measurement storage date-time screen

ALARM



Indicates voltage/current alarm threshold along with the direction of impedance

LOOP DETECTION



Detects and displays possible false readings associated with metal loops

GROUND VOLTAGE



Indicates voltage potential at the point of measurement

IMPEDANCE OVER RANGE



Indicates that the impedance is greater than 1500 Ω