

GROUND RESISTANCE TESTERS

CLAMP-ON



6417 Only

MODELS 6416 & 6417

Provides high safety level with new ground voltage indication feature



6416

6417



FEATURES

- Ground Integrity Measurement
- Ground voltage indication (*warns of possible unsafe conditions*)
- Large multifunction bright yellow OLED (*organic LED display*)
- Selectable test frequency (*improves accuracy in inductive environments*)
- Clamping diameter of 1.37 in (35 mm) with large jaw design
- Storage of measurements (Ω and/or A, with time-stamping)
- Model 6416: up to 300 measurements stored
- Model 6417: up to 2000 measurements stored
- View stored measurements on the OLED display or via Bluetooth® (*Class 2 - communicates up to 30 ft*) to a PC or the Android™ based mobile application (*Model 6417*)
- Auto Power OFF function
- Alarm function with adjustable set point and buzzer for quick field checks for volts, amps and ohms
- Rugged Lexan® head and body construction resists breakage
- Alarm settings and stored memory information saved during shutdown
- Includes DataView® software for data retrieval, real-time display, analysis, report generation and system configuration (*Model 6417*)
- Noise icon and buzzer alerts the user to presence of dangerous voltage and current levels

MODELS	6416 & 6417			
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	$\pm 1.5\% \pm 0.1 \Omega$	
	(50 to 99.5) Ω	0.5 Ω	$\pm 2\% \pm 0.5 \Omega$	
	(100 to 199) Ω	1 Ω	$\pm 3\% \pm 1 \Omega$	
	Auto-Ranging (0.01 to 1499) Ω	(200 to 395) Ω	5 Ω	$\pm 5\% \pm 5 \Omega$
		(400 to 590) Ω	10 Ω	$\pm 10\% \pm 10 \Omega$
(600 to 1150) Ω		50 Ω	20 % approx.	
(1200 to 1500) Ω		50 Ω	25 % approx.	
Current Measurement	(0.200 to 0.999) mA	1 μA	$\pm 2\% \pm 50 \mu\text{A}$	
	(1.000 to 2.990) mA (3 to 9.99) mA	10 μA		
	(10 to 29.90) mA (30 to 99.9) mA	100 μA	$\pm 2\% \pm 100 \mu\text{A}$	
Auto-Ranging 1 mA to 40 A	(100 to 299) mA (0.300 to 0.990) A	1 mA	$\pm 2\% \pm 1 \text{ mA}$	
	(1.000 to 2.990) A (3 to 39.99) A	10 mA	$\pm 2\% \pm 10 \text{ mA}$	
Selectable Measurement Frequency	(50, 60, 128 or 2083) Hz			
Current Measurement Frequency	(47 to 800) Hz			
Inductance Measurement	(10 to 100) μH ; (100 to 500) μH			
Current Overload	OL displayed above 39.99 Arms			
Communication	Bluetooth® connection (<i>Model 6417 only</i>)			
Power Supply	(4) 1.5 V LR6 (AA) alkaline batteries or (4) NiMH batteries; Battery life: 12 h, or 1440, 30 - s measurements approx.			
SAFETY				
Safety Rating	EN 61010-1, 600 V CAT IV			

Consult factory for NIST Calibration prices.

PRODUCT INCLUDES

6416 & 6417

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

6417

Also includes Bluetooth® USB adapter, printed quick start guide, a USB drive with DataView® software, ground tester workbook and user manual.



CAT. #	DESCRIPTION
2141.01	Ground Resistance Tester Model 6416 (Clamp-On, Alarm, Memory)
2141.02	Ground Resistance Tester Model 6417 (Clamp-On, Bluetooth®, Alarm, Memory, DataView® Software)



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FUNCTIONAL DISPLAYS (MODEL DEPENDENT)



Note: Display shown larger than actual size

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