

GROUND RESISTANCE TESTERS

CLAMP-ON

MODELS 6416 & 6417

Provides high safety level with new ground voltage indication feature

SPECIFICATIONS

MODELS	6416 & 6417			
ELECTRICAL				
Ground Resistance	Measurement Range	Resolution	Accuracy (% of Reading)	
	0.010 to 0.099Ω	0.001Ω	±1.5% ±0.01Ω	
	0.10 to 0.99Ω	0.01Ω	±1.5% ±0.02Ω	
	Auto-Ranging 0.01 to 1499Ω	1.0 to 49.9Ω	0.1Ω	±1.5% ±0.1Ω
		50.0 to 99.5Ω	0.5Ω	±2% ±0.5Ω
		100 to 199Ω	1Ω	±3% ±1Ω
		200 to 395Ω	5Ω	±5% ±5Ω
		400 to 590Ω	10Ω	±10% ±10Ω
Current Measurement	0.200 to 0.999mA	1μA	±2% ±50μA	
	1.000 to 2.990mA 3.00 to 9.99mA	10μA		
Auto-Ranging 1mA to 40A	10.00 to 29.90mA 30.0 to 99.9mA	100μA	±2% ±100μA	
	100.0 to 299.0mA 0.300 to 0.990A	1mA	±2% ±1mA	
	1.000 to 2.990A 3.00 to 39.99A	10mA	±2% ±10mA	
Selectable Measurement Frequency	50, 60, 128 or 2083Hz			
Current Measurement Frequency	47 to 800Hz			
Inductance Measurement	10 to 100μH; 100 to 500μH			
Current Overload	OL displayed above 39.99Arms			
Communication	Bluetooth connection (Model 6417 only)			
Power Source	(4) 1.5V LR6 (AA) Alkaline batteries or (4) NiMH batteries; Battery life: 12 hours, or 1440 30-second measurements approx.			
SAFETY				
Safety Rating	EN 61010-1, 600V CAT IV			

PRODUCT INCLUDES

6416 & 6417

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

6417

Also includes Bluetooth USB adapter,
Quick Start guide, a USB thumb drive with
DataView® software, ground workbook
and a user manual.



6416

6417



FEATURES

- Ground Integrity® Measurement
- Ground voltage indication (warns of possible unsafe conditions)
- Large multi-function bright yellow OLED (organic LED display)
- Selectable test frequency (improves accuracy in inductive environments)
- Clamping diameter of 1.37" (35mm) 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 30ft) 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 alert user to presence of dangerous voltage and current levels

CATALOG NO.	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



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 1500Ω