

# 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
Auto-Ranging 0.01 to 1499Ω	0.10 to 0.99Ω	0.01Ω	±1.5% ±0.02Ω
	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
	600 to 1150Ω	50Ω	20% approx
	1200 to 1500Ω	50Ω	25% approx
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