

### Models 6416 & 6417

Provides high safety level with new touch voltage indication feature

#### SPECIFICATIONS

MODELS	6416 & 6417			
<b>ELECTRICAL</b>				
<b>Ground Resistance</b>	<b>Measurement Range</b>	<b>Resolution</b>	<b>Accuracy (% of Reading)</b>	
Auto-Ranging 1 to 199Ω	0.010 to 0.099Ω	0.001Ω	±1.5% ±0.01Ω	
	0.10 to 0.99Ω	0.01Ω	±1.5% ±0.01Ω	
	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	
<b>Current Measurement</b>	0.200 to 0.999mA	1μA	±2% ±50μA	
	Auto-Ranging 1mA to 40A	1.000 to 2.990mA 3.00 to 9.99mA	10μA	±2% ±50μA
		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	
<b>Resistance Measurement Frequency</b>	2083Hz			
<b>Current Measurement Frequency</b>	47 to 800Hz			
<b>Loop Impedance Measurement</b>	10 to 100μH; 100 to 500μH			
<b>Current Overload</b>	OL displayed above 39.99Arms			
<b>Communication</b>	Bluetooth connection (Model 6417 only)			
<b>Power Source</b>	4x1.5V LR6 (AA) Alkaline batteries or 4 NiMH batteries; Battery life: 12 hours, or 1440 30-second measurements approx.			



\*Model 6417 only

#### FEATURES

- Contact voltage indication (warns of unsafe conditions)
- Large multi-function bright yellow organic display (OLED)
- Selectable test frequency (improves accuracy in inductive environments)
- Clamping diameter of 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
- Displays stored measurements on the OLED display or via *Bluetooth* (Class 1-communicates up to 900 ft) to a PC or the Android™ based mobile application (Model 6417)
- Auto-Off Power function
- Alarm function with adjustable set point and buzzer for quick field checks for volts, amps and ohms (Model 6417)
- Rugged Lexan® head and body construction resists breakage
- Alarm settings and stored memory information saved during shutdown (Model 6417)
- Includes DataView® software for data storage, 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
- Designed to EN 61010-1, 600V CAT IV safety standards

#### PRODUCT INCLUDES

Hard carrying case, calibration loop, battery, and USB stick supplied with ground tester workbook and user manual. Model 6417 also includes quick start user guide and DataView® software on USB stick.



# Models 6416 & 6417

## 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

### Contact Voltage



Indicates voltage potential at the point of measurement

### Current Disturbance



Indicates that the current is greater than 10A

### Impedance Over Range



Indicates that the impedance is greater than 1500Ω

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)