

Models 6416 & 6417

Provides high safety level with new touch voltage indication feature

SPECIFICATIONS

MODELS	6416 & 6417		
ELECTRICAL			
Ground Resistance	Measurement Range	Resolution	Accuracy (% of Reading)
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
Current Measurement	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
Resistance Measurement Frequency	2083Hz		
Current Measurement Frequency	47 to 800Hz		
Loop Impedance Measurement	10 to 100μH; 100 to 500μH		
Current Overload	OL displayed above 39.99Arms		
Communication	Bluetooth connection (Model 6417 only)		
Power Source	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.



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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

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)

