

6514 / 6517B / 6430 Electrometers

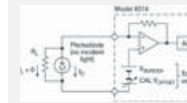


30-SECOND SELL

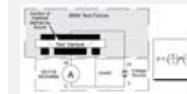
“Keithley’s electrometers are multi-function instruments measuring DC volts, DC current, resistance, and charge (coulombs) but with the unique capability for very low current and high resistance. Such measurement capabilities are generally not available on general purpose DMMs.”

PRODUCT HIGHLIGHTS

- Measure low current & high voltage, resistance, and charge
- Resistance measurements to 1000PΩ (6517B)
- Current sensitivity as low as 1aA (6430)
- Voltage burden as low as 200μV
- Superior accuracy and sensitivity



This illustrates how the Model 6514's measurement can be adjusted to reflect the true dark current of the photodiode.



A Model 6517B is well suited for applications where the volume resistivity needs to be measured.

MODEL	STOCK CODE	CURRENT	VOLTAGE	RESISTANCE	CHARGE	SOURCES
6517B	2074765	10aA - 20mA	1μV - 200V	1Ω - 1000PΩ	1fC - 2μC	±5mV to 1000V
6514	2074764	100aA - 20mA	10μV - 200V	10mΩ - 200GΩ	10fC - 20μC	—
6430	3903760	1aA - 100mA	100nV - 200V	1μΩ - >20TΩ	—	±5μV to 200V, ±50aA to 100mA

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RECOMMENDED ACCESSORIES

237-ALG-2	Low Noise Triax Cable, 3-slot triax to alligator clips	NIC
6517B-ILC-3	Interlock Cable (For 6517B only)	NIC
7078-TRX-3	Low Noise Triax Cable, 3-Slot Triax Connectors, 0.9m (3 ft)	2077465
7007-1	Shielded IEEE-488 Cable, 1m (3.2 ft)	2131242
8501-1	Trigger Link Cable, 1m (3.3 ft)	2131252
8503	Trigger Link DIN-to-BNC Trigger Cable	2131255
8607	1kV Source Banana Cables (for 6517B only)	NIC
6517-RH	Humidity Probe with Extension Cable (6517B only)	NIC
6517-TP	Temperature Bead Probe (included with 6517B) (6517B only)	NIC
8009	Resistivity Test Fixture (for 6517B)	NIC
237-BNC-TRX	Male BNC to 3-Lug Female Triax Adapter (for 6517B)	2460226
237-TRX-NG	Triax Male-Female Adapter with Guard Disconnected	NIC
7078-TRX-BNC	3-Slot Male Triax to BNC Adapter	2077468
7078-TRX-GND	3-Slot Male Triax to BNC Adapter with guard removed (for 6517B)	2077469
4288-1	Single Fixed Rack Mounting Kit	2131265
4288-2	Dual Fixed Rack Mounting Kit	2131277
6521	Low Current Scanner Card (for 6517B)	NIC
6522	Voltage/Low Current Scanner Card (for 6517B)	NIC
KPCI-488LPA	IEEE-488 Interface/Controller for the PCI Bus	2077470
KUSB-488B	IEEE-488 USB-to-GPIB Interface Adapter	2077471

SHIPS WITH PRODUCT

- Low Noise Triax Cable, 3-slot triax to alligator clips (6514, 6517B)
- 6430-322-1B Low noise Triax Cable, 3-slot triax to alligator clips (20cm) (6430)
- Dual Test Leads (6430, 6517B)
- 6517-TP Thermocouple Bead Probe (6517B)
- CS-1305 Interlock Connector (6517B)
- PreAmp Cable 2m (6.6ft) (6430)


ANOTHER PRODUCT FOR CONSIDERATION



Also consider:

- The **8009 Resistivity Chamber** for making surface and volume resistivity measurements on sheet samples. (Companion for the Model 6517B and 6487.) **See Recommended Accessories**
- **648x Series Picoammeters** for measuring low currents. **See Page 96**

TOOLS FOR THE CUSTOMER

 Data Sheet

FOR MORE INFO VISIT
TEK.COM/LOW-LEVEL-SENSITIVE-AND-SPECIALTY-INSTRUMENTS/HIGH-RESISTANCE-LOW-CURRENT-ELECTROMETERS-SERIES-6500-

3 Reasons to Buy this Product

- 1 Models 6514, 6517B, and 6430 Electrometers are designed for applications that demand fast, yet precise measurements of currents as low as femtoamps (10⁻¹⁵), voltages from high resistance sources, charge, and resistances as high as Tera-Ohms (10¹²).
- 2 The Electrometer, with its DMM-like usability, makes it easy to transition from a typical bench DMM to a sophisticated measurement tool.
- 3 Keithley's broad offering of basic, advanced, and ultra-sensitive electrometers fits your applications today and into the future.