

6485 Picoammeter, 6487, 6482 Picoammeter & Voltage Sources

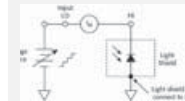


30-SECOND SELL

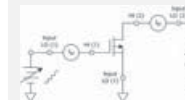
“Measuring low DC currents often demands a lot more than a digital multimeter (DMM) can deliver. Generally, DMMs lack the sensitivity required to measure currents less than 100nA. **Keithley’s Series 648x Picoammeters** combine the economy and ease of use of a DMM but with much lower current sensitivity.”

PRODUCT HIGHLIGHTS

- Measure currents down to 1fA
- Voltage and resistance measurement options
- Voltage burden <200 μ V (most models)
- 5½- to 6½-digit resolution (most models)
- Feedback ammeter design for higher accuracy



Dark current characterization of a photodiode using Picoammeter and voltage source (such as the Model 6482).



MOSFET sub-threshold voltage test using Picoammeters and voltage sources (such as the Model 6482).

MODEL	STOCK CODE	CHANNELS	CURRENT	RESISTANCE	READING RATE	VOLTAGE SOURCE
6482	2291576	2	1fA – 20mA (2 ch)	N/A	900 rdgs/s	2, \pm 30V
6487	2074763	1	10fA – 20mA	Up to $10^{15}\Omega$	1000 rdgs/s	\pm 500V
6485	2074762	2	10fA – 20mA	N/A	1000 rdgs/s	—

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RECOMMENDED ACCESSORIES

4802-10	Low noise BNC Input Cable, 3m (10ft) (for 6485)	NIC
4803	Low Noise Cable Kit (for 6485)	NIC
6517-ILC-3	Interlock Cable for 8009 Resistivity Test Fixture (6487 Only)	NIC
7007-1	Shielded IEEE-488 Cable, 1m (3.3 ft)	2131242
7007-2	Shielded IEEE-488 Cable, 2m (6.6 ft)	2131243
7007-4	Shielded IEEE-488 Cable, 4m (13.1 ft)	NIC
7009-5	RS-232 Cable	NIC
7078-TRX-10	Low Noise Triax Cable, 3.0m (10 ft) (6487 Only)	2077467
7078-TRX-20	Low Noise Triax Cable, 6.0m (20 ft) (6487 Only)	NIC
7754-3	BNC to Alligator Cable (for 6485)	NIC
8501-1	Trigger Link Cable with male Micro-DIN connectors at each end, 1m (3.3 ft)	2131252
CS-565	BNC Barrel (for 6485)	NIC
237-TRX-BAR	Triax Barrel (for 6487)	2460226
7078-TRX-BNC	Triax-to-BNC Adapter	2077468
8009	Resistivity Test Fixture (for 6487)	NIC
4288-1	Single Fixed Rack Mounting Kit	2131276
4288-2	Dual Fixed Rack Mounting Kit	2131277
KPCI-488LPA	IEEE-488 Interface/Controller for the PCI Bus	2077470
KUSB-488B	IEEE-488 USB-to-GPIB Interface Adapter	2077471

SHIPS WITH PRODUCT

- 7078-TRX-BNC Triax-to-BNC Connector (2x) (Model 6482)
- CA-186-1B Ground Connection Cable, Banana to Screw-Lug (Model 6487)
- CAP-31 Protective Shield/Cap (3-lug) (Model 6487)
- CS-459 Safety Interlock Plug (Model 6487)
- 7078-TRX-3 Low Noise Triax Input Cable, 1m (3 ft) (Model 6487)
- 8607 High Voltage Banana Cable Set for Voltage Source Output (Model 6487)
- CAP-18 Protective Shield/Cap (2-lug) (Model 6485)
- 4801 Low Noise BNC Input (Model 6485)


ANOTHER PRODUCT FOR CONSIDERATION



Also consider:

- **65xx Series Electrometers** for measuring low currents, high impedance voltages, high resistance, and charge. **See page 98**; or,
- An **8009 Resistivity Chamber** for surface and volume resistivity measurements on sheet samples. **See Recommended Accessories**

TOOLS FOR THE CUSTOMER

 Data Sheet

FOR MORE INFO VISIT
TEK.COM/LOW-LEVEL-SENSITIVE-AND-SPECIALTY-INSTRUMENTS/SERIES-6400-PICOAMMETERS

3 Reasons to Buy this Product

- 1 Keithley Picoammeters provide enhanced speed and accuracy performance, with measurement sensitivity as low as 10fA, perfect for any low current measurement application.
- 2 The Picoammeter is an affordable instrument for virtually any laboratory or production floor, with prices comparable to a general purpose DMM.
- 3 Keithley offers a range of picoammeters, including single-channel and dual-channel models as well as picoammeters with built-in voltage sources. You can find one suited to your needs today and into the future.