Keithley Product Comparison
Model 2450 vs. Model 2400

Model 2450 SourceMeter® SMU Instrument

An entirely new level of intuitive, interactive operation

- Capabilities of analyzers, curve tracers, and I-V systems at a fraction of the cost.

- Five-inch capacitive touchscreen interface

- Source and sink (4-quadrant) operation

- 0.012% basic measure accuracy with 6-½-digit resolution

- Enhanced sensitivity with new 20mV and 10nA source-measure ranges

- Built-in context-sensitive front panel help

- Front panel input banana jacks; rear panel input triaxial connectors

- Front panel USB memory port for data/ programming/configuration I/O

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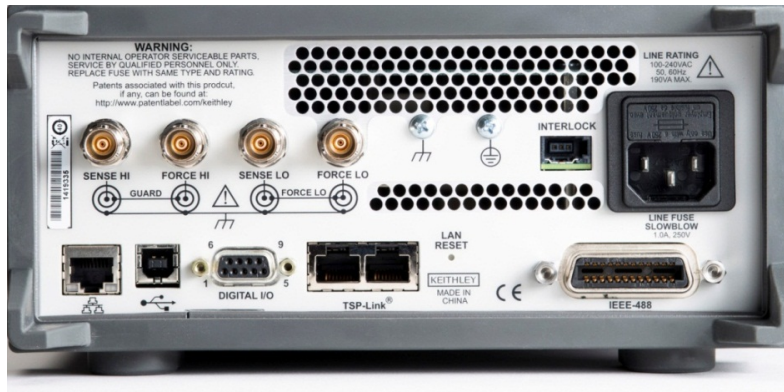# Model 2450 vs. Model 2400 SourceMeter Instruments
Front/Rear Panel Views

Model 2450

Model 2400

Model 2450 vs. Model 2400 SourceMeter Instruments
Feature Comparisons

Feature	Model 2450	Model 2400
Power Output	20 Watt	22 Watt
Current Capability	Min: 10fA Max: 1.05A	Min: 10pA Max: 1.05A
Voltage Capability	Min: 10nV Max: 210V	Min: 1μV Max: 210V
Ohms Range	<2Ω to >200MΩ	<2Ω to >200MΩ
Basic Accuracy: I, V, Ω	I: 0.020%; V: 0.012%; Ω: 0.04%	I: 0.025%; V: 0.012%; Ω: 0.04%
Wideband Noise	2mV$_{rms}$ Typical	4mV$_{rms}$ Typical
Sweep Types	Linear, Log, Dual Linear, Dual Log, Custom, Source-Memory (SCPI 2400 Mode)	Linear, Log, Custom, Source-Memory
Embedded Scripting	Yes	No
Contact Check	No	Yes
Selectable Front/Rear Inputs	Yes	Yes
Connections	Front Panel: Banana, Rear Panel: Triax	Front/Rear Panel: Banana
Command Language Protocol	SCPI (2400 & 2450) + TSP Programming	SCPI Programming

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Model 2450 vs. Model 2400 SourceMeter Instruments
Feature Comparisons *(con't.)*

Feature	Model 2450	Model 2400
Programming Interface	GPIB, USB 2.0, Ethernet (LXI)	GPIB, RS-232
Memory Buffer	>250,000 Points	5000 Points
Reading Rate	>3000 rdgs/sec	>2000 rdgs/sec
Rear Panel V, Ω Guard and Guard Sense inputs	No	Yes
Navigation Knob	Yes	No
Front Panel USB Port	Yes	No
Safety Interlock	Yes	No
Trigger	3 TSP-Link trigger lines, 6 digital I/O trigger lines	Trigger Link with 6 In/Out
Digital I/O	6 digital I/O lines	1 In / 4 Out

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