



**Vs.**



## Keithley SMU Instruments: The Smarter Alternative

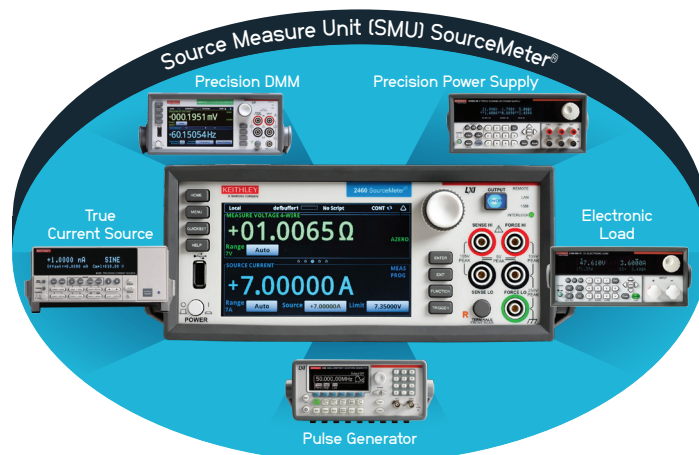
Too often making electrical measurements of devices or materials involves the time-consuming and error-prone juggling of individual instruments: a digital multimeter, power supply or electronic load and more.

Keithley SourceMeter® Source Measure Unit (SMU) instruments provide a smarter alternative. Only the SMU instrument gives you a full picture of a device's performance. For example, its built-in sweep capability allows you to go from negative to positive (or the opposite) without the need to reverse test leads. That not only saves you time, it also eliminates a potential source of inaccuracies.

### The Five-In-One Tool

Every Keithley SMU instrument is a five-in-one tool, combining in a single instrument features of a digital multimeter (DMM), power supply, current source, electronic load and pulse generator. You can use one to:

- Precisely source and measure voltage and/or current at the same time – synchronization is built-in
- Measure resistance vs. current/voltage – directly or indirectly
- Source and measure across a very broad range of current (100 aA to 50 A) and voltage (100 nV to 3 kV) with 6½ digits of measurement resolution
- Save money by purchasing a single SMU to do the work of up to five other instruments, and also realize savings both on calibration as well as time spent in setup.



## Equally at Home on the Bench or in the Test Rack

Keithley SMU instruments are bench instruments and can also be racked for production testing.

### BENCHTOP USERS ENJOY:

- Ultra-low level sample characterization with confidence
- Easy connection to various test fixtures or probing systems with standard connectors (banana, triax) and cables
- Easy-to-use touchscreen models for a fast learning curve
- A multi-purpose instrument that saves money and time, yet still offers high precision

### TEST RACK USERS APPRECIATE:

- Multi-channel models and TSP-Link expansion networking for parallel testing without a mainframe
- User written TSP Script programs run in the instrument to enable fast throughput
- Digital I/O for control of external hardware
- Test system speeds that are up to 60% faster with up to 10X more throughput

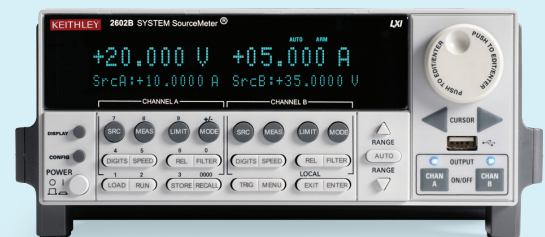
Learn about Keithley Source Measure Unit instruments at: [www.tek.com/smu](http://www.tek.com/smu)

Following are two of the 20+ models to choose from.



### Best Lab SMU – Model 2450

The intuitive touchscreen interface is well-suited for expert and occasional user alike, and provides I-V curve tracing capability. Front and rear panel connections add to its versatility.



### Most Popular for ATE – Model 2602B

Two channels of sourcing and measurement at 40W /channel. TSP® (Test Script Processing) embedded test programs on instrument for fast system-level speed. True multi-channel parallel test via TSP Link.

