SOURCE MEASURE UNITS
The Brodest Choice of SMU Instruments Available
Selector Guide
MAKE MULTIPLE MEASUREMENTS ACCURATELY USING A SINGLE INSTRUMENT

A source measure unit (SMU) instrument is a five-in-one tool. It combines the useful features of a digital multimeter (DMM), power supply, current source, electronic load and pulse generator, all in a compact form factor. This empowers you to:

- Precisely source and measure voltage and/or current at the same time
- 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
- Run production tests 60% faster and gain up to 10X more throughput
- Save time, maximize speed and get jobs done quickly.

WHY A KEITHLEY SOURCE MEASURE UNIT?

For more than 70 years, Tektronix — the manufacturer of Keithley SMUs — has been designing, manufacturing and marketing advanced electrical test instruments and systems for the specialized needs of electronics manufacturers in high performance production testing, process monitoring, product development and research.

- Repeatability Guaranteed
- High Accuracy and Sensitivity
- Fast and Precise
- Broadest Choices
Make multiple measurements accurately using a single instrument.

Why a Keithley Source Measure Unit?

Touch, Test, Invent™ with a Graphical Touchscreen SMU

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Keithley’s Wide Selection of Source Measure Unit SMU Instruments
TOUCH, TEST, INVENT WITH
A GRAPHICAL TOUCHSCREEN SMU

2450, 2460, 2461, and 2470 SourceMeter SMU Instruments

- Five-inch, high resolution capacitive touchscreen GUI
- 0.012% basic measure accuracy with 6½-digit resolution
- Wide coverage up to 1100 V, 7 A DC, 10 A pulse, 1000 W max.
- Source and sink (4-quadrant) operation
- Dual 1 MS/s digitizers for fast sampling measurements (2461 only)
- Enhanced sensitivity with 20 mV and 10 nA source/measure ranges (2450 only)
- Built-in, context-sensitive front panel help
- SCPI and Test Script Processor (TSP®) programming modes
- Front-panel USB 2.0 memory I/O port for transferring data, test scripts, or test configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>2450</th>
<th>2460</th>
<th>2461</th>
<th>2470</th>
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<tbody>
<tr>
<td>Max Current Source/Measure Range</td>
<td>1 A</td>
<td>7 A</td>
<td>10 A</td>
<td>1 A</td>
</tr>
<tr>
<td>Max Voltage Source/Measure Range</td>
<td>200 V</td>
<td>100 V</td>
<td>100 V</td>
<td>1000 V</td>
</tr>
<tr>
<td>Measurement Resolution (Current / Voltage)</td>
<td>10 fA / 10 nV</td>
<td>10 pA / 100 nV</td>
<td>1 pA / 100 nV</td>
<td>10 fA / 100 nV</td>
</tr>
<tr>
<td>Max Output Power</td>
<td>20 W</td>
<td>100 W</td>
<td>1000 W</td>
<td>20 W</td>
</tr>
</tbody>
</table>

Save Time, Maximize Speed, and Get Jobs Done Quickly

SMU models that use familiar graphical interfaces, like icon-based menu structures, are easier to use for all experience levels. You’ll make measurements faster by reducing the learning curve and configuration steps, enabling you to learn faster, work smarter, and invent easier.
STANDARD PERFORMANCE SMUS FOR THE MOST BASIC NEEDS

Series 2400 SourceMeter SMU Instruments

- Five models: 20–100 W DC, 1100 V to 1 μV; single channel
- Source and sink (4-quadrant) operation
- 0.012% basic measure accuracy with 6½-digit resolution
- 2-, 4-, and 6-wire remote V-source and measure sensing
- 1700 readings/second at 4½ digits via GPIB
- Pass/Fail comparator for fast sorting/binning
- Programmable DIO port for automation/handler/prober control (except 2401)
- Standard SCPI GPIB, RS-232 and Keithley Trigger Link interfaces

<table>
<thead>
<tr>
<th>Model</th>
<th>2400</th>
<th>2401</th>
<th>2410</th>
<th>2420</th>
<th>2440</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Current Source/Measure Range</td>
<td>1 A</td>
<td>1 A</td>
<td>1 A</td>
<td>3 A</td>
<td>5 A</td>
</tr>
<tr>
<td>Max Voltage Source/Measure Range</td>
<td>200 V</td>
<td>20 V</td>
<td>1100 V</td>
<td>60 V</td>
<td>40 V</td>
</tr>
<tr>
<td>Measurement Resolution (Current/Voltage)</td>
<td>1 pA / 100 nV</td>
<td>1 pA / 100 nV</td>
<td>1 pA / 100 nV</td>
<td>10 pA / 100 nV</td>
<td>10 pA / 100 nV</td>
</tr>
<tr>
<td>Max Output Power</td>
<td>20 W</td>
<td>20 W</td>
<td>20 W</td>
<td>60 W</td>
<td>50 W</td>
</tr>
</tbody>
</table>

MORE USEFUL THAN THE COMBINATION OF INDIVIDUAL INSTRUMENTS

SMU VS. POWER SUPPLIES

- SMUs can automatically sweep voltage or current to and from negative and positive outputs when the source crosses zero.
- During these operations, there is no need to change test leads.
- Output of a SMU can settle to within 0.01% of the specified accuracy in as little as 50 ms.
- SMU has higher precision and wider operating ranges.
- SMU is a more flexible option

SMU VS. THE DMM AND POWER SUPPLY COMBO

- SMU tightly integrates the source and measure capability into one instrument, eliminating the need for a separate DMM and power supply.
- Improves test times, simplifies overall test system design and increases usability
- SMUs can outperform the DMM and Power Supply Combo on current vs. voltage (IV) measurements for a variety of applications.
Series 2600B System SourceMeter SMU Instruments

- Tightly integrated, 4-quadrant voltage/current source and measure instruments offer best-in-class performance with 6½-digit resolution
- Family of models offers industry’s widest dynamic range:
  - 10 A pulse to 0.1 fA and 200 V to 100 nV
- TSP technology embeds complete test programs inside the instrument for best-in-class system-level throughput
- TSP-Link® expansion technology for multi-channel parallel test without a mainframe
- Complete production test without sacrificing footprint
- USB 2.0, LXI-C, GPIB, RS-232, and digital I/O interfaces

<table>
<thead>
<tr>
<th>Model</th>
<th>2601B</th>
<th>2602B</th>
<th>2604B</th>
<th>2611B</th>
<th>2612B</th>
<th>2614B</th>
<th>2634B</th>
<th>2635B</th>
<th>2636B</th>
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<tr>
<td>Channels</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Max Current Source/Measure Range</td>
<td>3 A DC / 10 A Pulse</td>
<td>3 A DC / 10 A Pulse</td>
<td>3 A DC / 10 A Pulse</td>
<td>1.5A DC / 10 A Pulse</td>
<td>1.5A DC / 10 A Pulse</td>
<td>1.5A DC / 10 A Pulse</td>
<td>1.5A DC / 10 A Pulse</td>
<td>1.5A DC / 10 A Pulse</td>
<td></td>
</tr>
<tr>
<td>Max Voltage Source/Measure Range</td>
<td>40 V</td>
<td>40 V</td>
<td>40 V</td>
<td>200 V</td>
<td>200 V</td>
<td>200 V</td>
<td>200 V</td>
<td>200 V</td>
<td>200 V</td>
</tr>
<tr>
<td>Measurement Resolution (Current/Voltage)</td>
<td>100 fA / 100 nV</td>
<td>100 fA / 100 nV</td>
<td>100 fA / 100 nV</td>
<td>100 fA / 100 nV</td>
<td>100 fA / 100 nV</td>
<td>100 fA / 100 nV</td>
<td>1 fA / 100 nV</td>
<td>0.1 fA / 100 nV</td>
<td>0.1 fA / 100 nV</td>
</tr>
</tbody>
</table>

Run Production Tests 60% Faster and Gain Up to 10x More Throughput

SMUs streamline production testing. The instruments source voltage or current while making measurements — without needing to change connections. SMUs are designed for reliable operation in non-stop production environments.

To provide the throughput demanded by production applications, embedded test scripts can be uploaded into the SMU, enabling them to run complex test sequences without computer control or communications slowing things down.

Test Script

DUT

Three-Point Diode Test

Without Scripting

With Scripting

Avg. time per part (ms)
10 A AT 10 V @ 10 μs CURRENT PULSING FOR TESTING NEXT GENERATION DEVICES

2601B-PULSE System SourceMeter 10 μs Pulser/SMU Instrument

- Industry leading 10 A @ 10 V, 10 microsecond pulse output
- No tuning required for inductive loads up to 3 μH
- Dual 1 Megasample/second digitizers for high speed I/V pulse measurements (pulser function only)
- DC capability up to ±40 V @ ±1.0 A, 40 Watt
- TSP technology embeds complete test programs inside the instrument for best-in-class system-level throughput
- TSP-Link expansion technology for multi-channel parallel test without a mainframe
- USB 2.0, LXI-C, GPIB, RS-232, and digital I/O interfaces
- Supported in the Keithley KickStart non-programming software tool

No Tuning of Output Required up to 3 μH. Saves Time and Money

When outputting current pulses, cabling and inductance can be a problem. Inductance can have a limiting effect and could even be damaging. Quite often, the inductance can be different from device to device, even when testing laser diodes on a wafer. The effect of inductance on a current source is that inductance resists changes in current. This can cause the current source to increase the output voltage. The result is overshoot and ringing as the pulse settles. This may not be acceptable in your test. Some solutions require tuning to compensate for these behaviors, which can be time consuming. The 2601B–PULSE’s control loop system eliminates the need to tune for load changes up to 3 μH so that your pulse has no overshoot and ringing when outputting pulses from 10 μs up to 500 μs at a current up to 10 amps. This ensures a fast rise time, so your devices are sourced with a current pulse to properly characterize the device or circuit. The images to the right show the performance of a competitive modular SMU outputting a 5 A, 50 μs pulse on a device with an impedance of 3 μH compared to the 2601B–PULSE with PulseMeter technology.
2651A 50 Amp High Power System SourceMeter SMU Instrument

- Source or sink:
  - 2,000 W of pulsed power (±40 V, ±50 A)
  - 200 W of DC power (±10 V @ ±20 A, ±20 V @ ±10 A, ±40 V @ ±5 A)
- Easily connect two units (in series or parallel) to create solutions up to ±100 A or ±80 V
- 1 pA resolution enables precise measurement of very low leakage currents
- 1 μs per point (1 MHz), 18-bit sampling, accurately characterizes transient behavior
- 1% to 100% pulse duty cycle for pulse width modulated (PWM) drive schemes and device specific drive stimulus

2657A 3000 Volt High Power System SourceMeter SMU Instrument

- Source or sink up to 180 W of DC or pulsed power, (±3000 V @ 20 mA, ±1500 V @ 120 mA)
- 1 fA low current resolution
- Dual 22-bit precision ADCs and dual 18-bit 1 μs per point digitizers for high accuracy and high speed transient capture
- Fully TSP\textsuperscript{®} compliant for easy system integration with Series 2600B System SourceMeter models and 24XX Graphical SMUs

Achieving Fast Pulse Measurements for Today’s High-Power Devices

Green initiatives and energy efficiency standards worldwide have motivated engineers to find ways to design more efficient semiconductor devices and integrated circuits, and measuring the true state of these devices without the effects of self-heating is critical. Pulsed characterization is a solution to this issue. The use of a pulsed stimulus demands faster measurements. For high-speed digitization or waveform capture applications that require these capabilities, Keithley’s High Power SourceMeter\textsuperscript{®} Instrument also includes two high-speed ADCs for measuring current and voltage simultaneously. These ADCs use sampling technology like an oscilloscope and take snapshots of the signal over time. Each high-speed ADC samples at a rate of up to 1 MHz with 18-bit resolution, which is much higher than the typical 8-bit resolution of an oscilloscope, resulting in more precise transient characterization in comparable bandwidths. Coupled with the ability to measure asynchronously from the source, this feature makes the 2651A and 2657A ideal for many waveform capture and transient characterization applications.
HIGH DENSITY, MORE CHANNELS, SMALLER FORM FACTOR

2606B System SourceMeter SMU Instrument
- Incorporates the capabilities of two industry-leading Keithley 2602B SMUs.
- Four-channel SMU instrument in a single 1U full-rack chassis
- Stackable; no 1U spacing requirements between units
- Tightly integrated voltage/current source and measure instruments offer best-in-class performance with 6½-digit resolution
- 20 V @ 1 A and 6 V @ 3 A power envelopes, 20 watts
- 0.015% DCV basic accuracy

Lean Factories Are Critical to Manufacturers’ Success

Today, manufacturers need to speed products to market, reduce costs, and keep customers happy. That means manufacturers must build lean factories that create seamless flows of people, material and information, and prevent the build-up of inventory and excess equipment.

The Challenge
Yet as demand grows, manufacturers need to increase test capacity for products, which requires placing additional racks of test equipment on the plant floor.

TRIPLE THE DENSITY OF A TEST RACK

The Model 2606B form factor (only 1U high) is a perfect fit and improves density by 3x, because there is no need for an additional 1U thermal spacer between units (for air flow).

2606B LEARN MORE

Most bench source measure units on the market today are 2U high.
**SPECIALTY SMUS FOR VERY LOW CURRENT AND OPTOELECTRONICS TESTING**

**6430 Sub-femtoamp Remote SourceMeter SMU Instrument**
- 0.4 fA p-p (4E–16A) noise (typical)
- >1016 Ω input resistance on voltage measurements
- High speed — up to 2000 readings/second
- Up to 6½-digit resolution
- 0.012% basic voltage accuracy; 0.025% basic current accuracy

**2510 and 2510-AT TEC and Autotuning TEC SourceMeter SMU Instruments**
- 50 W TEC Controller combined with DC measurement functions
- Fully digital P-I-D control; Autotuning capability for the thermal control loop (2510-AT)
- Designed to control temperature during laser diode module testing
- Wide temperature setpoint range (–50°C to +225°C) and high setpoint resolution (±0.001°C) and stability (±0.005°C)
- Compatible with a variety of temperature sensor inputs: thermistors, RTDs, and IC sensors

**2520 Pulsed Laser Diode Test System**
- Integrated solution for in-process LIV production testing of laser diodes at the chip or bar level
- Combines high accuracy source and measure capabilities or pulsed and DC testing
- Synchronized DSP-based measurement channels ensure highly accurate light intensity and voltage measurements
- Programmable pulse on time from 500 ns to 5 ms up to 4% duty cycle
- Pulse capability up to 5 A, DC capability up to 1 A
- 14-bit measurement accuracy on three measurement channels (Vp, front photodiode, back photodiode)
- Up to 1000-point sweep stored in buffer memory eliminates GPIB traffic during test, increasing throughput
DETERMINE WHICH KEITHLEY SMU IS RIGHT FOR YOU

Need help selecting the SMU that’s right for your needs? Let these selector tables be your guide!

Keithley 24xx Standard and Graphical SMUs

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Model</th>
<th>Keithley 24xx Standard and Graphical SMUs</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>2400</td>
<td>2401</td>
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<tr>
<td>Display</td>
<td>VFD, 2 line</td>
<td>VFD, 2 line</td>
</tr>
<tr>
<td>Channels</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Digits</td>
<td>6½</td>
<td>6½</td>
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<tr>
<td>Quadrants of Operation</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Max Output Power</td>
<td>20 W</td>
<td>20 W</td>
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SOURCE / MEASURE

<table>
<thead>
<tr>
<th></th>
<th>I</th>
<th>V</th>
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<tbody>
<tr>
<td>min</td>
<td>±1 pA</td>
<td>±100 nV</td>
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<tr>
<td>max</td>
<td>±1 A</td>
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<td>I</td>
<td>0.025%</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>0.012%</td>
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GENERAL FEATURES

<table>
<thead>
<tr>
<th></th>
<th>No</th>
<th>No</th>
<th>No</th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td>Reading Speed</td>
<td>2,000 rdgs/s</td>
<td>2,000 rdgs/s</td>
<td>2,000 rdgs/s</td>
<td>2,000 rdgs/s</td>
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<tr>
<td>Compliance</td>
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<td>CE</td>
<td>CE</td>
<td>CE</td>
<td>CE, NRTL listed</td>
<td>CE, NRTL listed</td>
</tr>
</tbody>
</table>

*SCPI* includes TSP-Link, USB 2.0, LAN/LXI 1.4, IEEE-488, and optionally plus 2400 Emulation.
# SMU Selector Table

Keithley 26xxB Series High Speed System SMUs for Demanding Applications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Keithley 26xxB Series High Speed System SMUs</th>
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<tbody>
<tr>
<td></td>
<td>2601B</td>
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<tr>
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<td>VFD, 2 line</td>
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<tr>
<td>Channels</td>
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</tr>
<tr>
<td>Digits</td>
<td>6½</td>
</tr>
<tr>
<td>Quadrants of Operation</td>
<td>4</td>
</tr>
<tr>
<td>Max Output Power</td>
<td>200 W Pulse, 40 W DC</td>
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<tr>
<td>SOURCE / MEASURE</td>
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</tr>
<tr>
<td>I</td>
<td>min ±100 fA</td>
</tr>
<tr>
<td>max ±10 A Pulse, ±3 A DC</td>
<td>±10 A Pulse, ±3 A DC</td>
</tr>
<tr>
<td>V</td>
<td>min ±100 nV</td>
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<tr>
<td>max ±40 V</td>
<td>±40 V</td>
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<td>Basic Accuracy</td>
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<tr>
<td>I</td>
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<tr>
<td>V</td>
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<td>GENERAL FEATURES</td>
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<td>Digitizers</td>
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<td>SCPI</td>
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<td>TSP-Link</td>
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<td>Digital I/O</td>
<td>Yes</td>
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<tr>
<td>Contact Check</td>
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<tr>
<td>Compliance</td>
<td>CE, UL</td>
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</table>
## SMU SELECTOR TABLE

### Keithley Specialty SMUs

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Very Low Current</th>
<th>Fast Pulser/SMU</th>
<th>High Density SMUs</th>
<th>High Power SMUs</th>
<th>Optical SMUs</th>
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<tbody>
<tr>
<td></td>
<td>6430</td>
<td>2601B-PULSE</td>
<td>2606B</td>
<td>2651A</td>
<td>2657A</td>
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<td>VFD, 2 line</td>
<td>VFD, 2 line</td>
</tr>
<tr>
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<td>1</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Digits</td>
<td>6½</td>
<td>6½</td>
<td>6½</td>
<td>6½</td>
<td>5½</td>
</tr>
<tr>
<td>Quadrants of Operation</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

### Max Output Power
- 2 W
- SMU Function: 200 W Pulse, 40 W DC
- Fast Pulser Function: 2 W

### SOURCE / MEASURE

#### I
- min ±1 aA
- SMU Function: ±100 IA
- Pulser Function: 10 µA
- ±100 mA
- SMU Function: ±10 A
- Pulser Function: ±3 A DC
- ±3 A Pulse, ±3 A DC
- ±50 A Pulse, ±20 A DC
- ±120 mA
- ±5 A

#### V
- min ±100 nV
- SMU Function: ±100 nV
- Pulser Function: 10 µV
- ±200 V
- SMU Function: ±40 V
- Pulser Function: ±10 V
- ±20 V
- ±40 V
- ±3000 V
- ±10 V

### Basic Accuracy
- I 0.025%
- SMU Function: 0.02%
- Pulser Function: 0.12%
- V 0.012%
- SMU Function: 0.015%
- Pulser Function: 0.05%

### GENERAL FEATURES

#### Digitizers
- No
- Dual 18-bit 1 MS/s Digitizers (Pulser Function Only)
- No
- Dual 18-bit 1 MS/s Digitizers
- No
- Dual 18-bit 1 MS/s Digitizers
- No
- Dual 14-bit 10 MS/s Digitizers

#### Reading Speed
- 2,000 rdgs/s
- SMU Function: 20,000 rdgs/s
- Pulser Function: 1 µs on Digitizers
- 20,000 rdgs/s
- 20,000 rdgs/s, 1 MS/s with Digitizer
- 20,000 rdgs/s, 1 MS/s with Digitizer
- 60 rdgs/s
- 60 rdgs/s
- 188 rdgs/s (to memory)

#### Programming
- SCPI ✓
- TSP ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

#### TSP-Link
- No
- Yes
- Yes
- Yes
- Yes
- No
- No
- No

#### Digital I/O
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes

#### Contact Check
- No
- Yes
- Yes
- Yes
- Yes
- No
- No
- No

#### Computer Interface
- IEEE-488 RS-232
- USB 2.0 LAN/LXI-C
- IEEE-488 RS-232
- USB 2.0 LAN/LXI-C
- IEEE-488 RS-232
- LAN/LXI-C
- IEEE-488 RS-232
- IEEE-488 RS-232
- IEEE-488 RS-232

#### Compliance
- CE
- CE, NRTL listed
- CE, NRTL listed
- CE, NRTL listed
- CE, NRTL listed
- CE
- CE
- CE
WE ARE HERE TO HELP YOU

All Keithley SMUs are backed by a 1-year warranty. Keithley’s Service Department is ISO9001 registered and only uses factory-approved components when servicing your SMU. Keithley also offers ISO17025 Accredited Calibration services on the SMU. An ISO17025 calibration assures you that the calibration is traceable to national standards (important for legal metrology) and the uncertainties in the calibration are correct.

If you have a question on what is presented here, or want to explore more about which source measure unit is right for you, our technical support center ready to answer your questions.

For more information about Source Measure Units, visit our Source Measure Unit Tutorial page to review additional literature, and view product demos and webinars. 

tek.com/learning/what-is-a-source-measure-unit
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