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System SourceMeter®
 Instrument Specifications

SPECIFICATION CONDITIONS

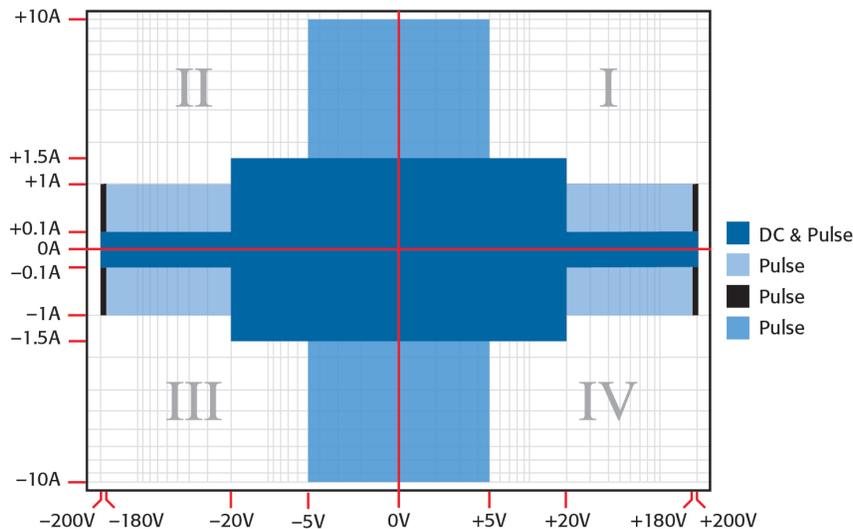
This document contains specifications and supplemental information for the Models 2634B, 2635B and 2636B System SourceMeter® instrument. Specifications are the standards against which the Models 2634B, 2635B and 2636B are tested. Upon leaving the factory, the Models 2634B, 2635B and 2636B meet these specifications. Supplemental and typical values are nonwarranted, apply at 23 °C, and are provided solely as useful information.

Source and measurement accuracies are specified at the Models 2634B, 2635B and 2636B terminals under these conditions:

1. 23 °C ± 5 °C, < 70 percent relative humidity
2. After a two-hour warm-up period
3. Speed normal (1 NPLC)
4. A/D autozero enabled
5. Remote sense operation or properly zeroed local operation
6. Calibration period: One year

DC POWER SPECIFICATIONS

	Voltage	Current
Maximum output power and source/sink limits¹	30.3 W maximum per channel <ul style="list-style-type: none"> ▪ ± (20.2 V at 1.5 A, -1.5 A) ▪ ± (202 V at 100 mA, -100 mA) ▪ Four-quadrant source or sink operation 	30.3 W maximum per channel <ul style="list-style-type: none"> ▪ ± (1.515 A at 20 V, -20 V) ▪ ± (101 mA at 200 V, -200 V) ▪ Four-quadrant source or sink operation



Refer to the “Pulse Characteristics” section for pulsing details, such as duty cycle and pulse width.

¹ Full power source operation regardless of load or number of channels used to 30 °C ambient temperature. Above 30 °C or power sink operation, refer to “Operating Boundaries” in the Series 2600B Reference Manual for additional power derating information.

VOLTAGE ACCURACY SPECIFICATIONS^{2,3}

Range	Source			Measure	
	Programming resolution	Accuracy ± (% reading + volts)	Typical Noise (Peak to Peak) 0.1 Hz to 10 Hz	Display resolution	Accuracy ⁴ ± (% reading + volts)
200 mV	5 µV	0.02 % + 375 µV	20 µV	100 nV	0.015 % + 225 µV
2 V	50 µV	0.02 % + 600 µV	50 µV	1 µV	0.02 % + 350 µV
20 V	500 µV	0.02 % + 5 mV	300 µV	10 µV	0.015 % + 5 mV
200 V	5 mV	0.02 % + 50 mV	2 mV	100 µV	0.015 % + 50 mV

CURRENT ACCURACY SPECIFICATIONS²

Range	Source			Measure	
	Programming resolution	Accuracy ± (% reading + amperes)	Typical Noise (Peak to Peak) 0.1 Hz to 10 Hz	Display resolution	Accuracy ⁴ ± (% reading + amperes)
100 pA ⁵	N/A	N/A	N/A	100 aA	0.15 % + 120 fA ^{6,7}
1 nA	20 fA	0.15 % + 2 pA	800 fA	1 fA	0.15 % + 240 fA ^{6,8}
10 nA	200 fA	0.15 % + 5 pA	2 pA	10 fA	0.15 % + 3 pA
100 nA	2 pA	0.06 % + 50 pA	5 pA	100 fA	0.06 % + 40 pA
1 µA	20 pA	0.03 % + 700 pA	25 pA	1 pA	0.025 % + 400 pA
10 µA	200 pA	0.03 % + 5 nA	60 pA	10 pA	0.025 % + 1.5 nA
100 µA	2 nA	0.03 % + 60 nA	3 nA	100 pA	0.02 % + 25 nA
1 mA	20 nA	0.03 % + 300 nA	6 nA	1 nA	0.02 % + 200 nA
10 mA	200 nA	0.03 % + 6 µA	200 nA	10 nA	0.02 % + 2.5 µA
100 mA	2 µA	0.03 % + 30 µA	600 nA	100 nA	0.02 % + 20 µA
1 A	20 µA	0.05 % + 1.8 mA	70 µA	1 µA	0.03 % + 1.5 mA
1.5 A	50 µA	0.06 % + 4 mA	150 µA	1 µA	0.05 % + 3.5 mA
10 A ⁹	200 µA	0.5 % + 40 mA	N/A	10 µA	0.4 % + 25 mA

² For temperatures 0 °C to 18 °C and 28 °C to 50 °C, accuracy is degraded by ± (0.15 × accuracy specification)/°C. High Capacitance Mode accuracy is applicable at 23 °C ± 5 °C.

³ Add 50 µV to source accuracy specifications per volt of HI lead drop.

⁴ Derate accuracy specification for NPLC setting < 1 by increasing the error term. Add appropriate typical percent of reading term for resistive loads using the table below.

NPLC setting	200 mV range	2 V and 200 V ranges	100 nA range	1 µA to 100 mA ranges	1 A to 1.5 A ranges
0.1	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
0.01	0.08 %	0.07 %	0.1 %	0.05 %	0.05 %
0.001	0.8 %	0.6 %	1 %	0.5 %	1.1 %

⁵ The 100pA range is not available with the Model 2634B.

⁶ 10-NLPC, 11-Point Median Filter, < 200 V range, measurements made within 1 hour after zeroing. 23 °C ± 1 °C.

⁷ Under default specification conditions: ± (0.15 % + 750 fA).

⁸ Under default specification conditions: ± (0.15 % + 1 pA).

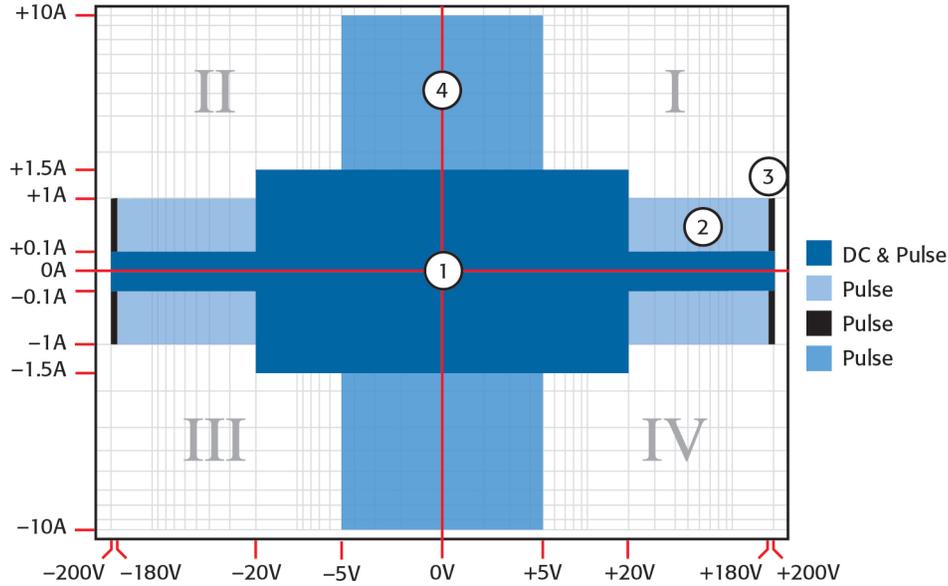
⁹ 10 A range is accessible in pulse mode only. Accuracy specifications for 10 A range are typical.

Specifications are subject to change without notice

SUPPLEMENTAL CHARACTERISTICS

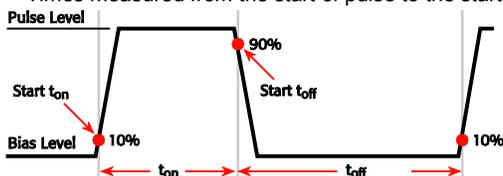
The following specifications are supplemental characteristics that provide additional information about instrument functions and performance. These characteristics are nonwarranted specifications; they describe the typical performance of the Models 2634B, 2635B and 2636B.

PULSE CHARACTERISTICS



Pulse region specifications	Pulse region specifications			
	Region quadrant diagram	Region maximums	Maximum pulse width ¹⁰	Maximum duty cycle ¹¹
	1	100 mA at 200 V	DC, no limit	100 %
	1	1.5 A at 20 V	DC, no limit	100 %
	2	1 A at 180 V	8.5 ms	1 %
	3 ¹²	1 A at 200 V	2.2 ms	1 %
	4	10 A at 5 V	1 ms	2.2 %

¹⁰ Times measured from the start of pulse to the start off-time; see figure below.



¹¹ Thermally limited in sink mode (quadrants 2 and 4) and ambient temperatures above 30° C. See power equations in the Series 2600B Reference Manual for more information.

¹² Voltage source operation with 1.5 A current limit.

Minimum programmable pulse width⁹	100 μ s <ul style="list-style-type: none"> Note: Minimum pulse width for settled source at a given I/V output and load can be longer than 100 ms. 			
	Source value	Load	Source settling time (% of range)	Minimum pulse width
	5 V	0.5 Ω	1 %	300 μ s
	20 V	200 Ω	0.2 %	200 μ s
	180 V	180 Ω	0.2 %	5 ms
	200 V (1.5 A Limit)	200 Ω	0.2 %	1.5 ms
	100 mA	200 Ω	1 %	200 μ s
	1 A	200 Ω	1 %	500 μ s
	1 A	180 Ω	0.2 %	5 ms
10 A	0.5 Ω	0.5 %	300 μ s	
Pulse width programming resolution	1 μ s			
Pulse width programming accuracy	\pm 5 μ s			
Pulse width jitter	2 μ s			

ADDITIONAL SOURCE CHARACTERISTICS

Noise 10 Hz to 20 MHz	< 20 mV peak-peak, < 3 mV RMS <ul style="list-style-type: none"> 20 V range
Transient response time	< 70 μ s for the output to recover to within 0.1 % for a 10 % to 90 % step change in load.
Overshoot	Voltage: <ul style="list-style-type: none"> < \pm0.1 % + 10 mV Step size = 10 % to 90 % of range, resistive load, maximum current limit/compliance Current: <ul style="list-style-type: none"> < \pm0.1 % Step size = 10 % to 90 % of range, resistive load See Current source output settling time for additional test conditions
Range change overshoot	Voltage: <ul style="list-style-type: none"> < 300 mV + 0.1 % of larger range Overshoot into a 200 kΩ load, 20 MHz bandwidth Current: ¹³ <ul style="list-style-type: none"> < 300 mV/R_{load} + 5 % of larger range
Guard offset voltage	< 4 mV <ul style="list-style-type: none"> Current < 10 mA
Remote sense operating range¹⁴	Maximum voltage between HI and SENSE HI = 3 V Maximum voltage between LO and SENSE LO = 3 V

¹³ With source settling set to SETTLE_SMOOTH_100NA

¹⁴ Add 50 μ V to source accuracy specifications per volt of HI lead drop.

Voltage output headroom	<p>200 V range</p> <ul style="list-style-type: none"> ▪ Maximum output voltage = 202.3 V – (total voltage drop across source leads). Maximum 1 Ω source lead. <p>20 V range</p> <ul style="list-style-type: none"> ▪ Maximum output voltage = 23.3 V – (total voltage drop across source leads). Maximum 1 Ω source lead. 	
Over-temperature protection	Internally sensed temperature overload puts the instrument in standby mode	
Limit/compliance	<p>Bipolar limit (compliance) set with a single value</p> <p>Voltage:¹⁵</p> <ul style="list-style-type: none"> ▪ Minimum value is 20 mV; accuracy is the same as voltage source <p>Current:¹⁶</p> <ul style="list-style-type: none"> ▪ Minimum value is 100 pA; accuracy is the same as current source 	
Voltage source output settling time	Time required to reach within 0.1 % of final value after source level command is processed on a fixed range.	
	Voltage range	Settling time
	200 mV	< 50 μs
	2 V	< 50 μs
	20 V	< 110 μs
200 V	< 700 μs	
Current source output settling time	Time required to reach within 0.1 % of final value after source level command is processed on a fixed range	
	<ul style="list-style-type: none"> ▪ Values below for $I_{out} \times R_{load} = 2 V$ 	
	Current range	Settling time
	1.5 A and 1 A	< 120 μs ($R_{load} > 6 \Omega$)
	100 mA and 10 mA	< 80 μs
	1 mA	< 100 μs
	100 μA	< 150 μs
	10 μA	< 500 μs
	1 μA	< 2 ms
	100 nA	< 20 ms
10 nA	< 40 ms	
1 nA	< 150 ms	

¹⁵ For sink operation (quadrants II and IV) without sink mode enabled, add 10 % of compliance range and ±0.02 % of limit settling to the corresponding voltage source accuracy specifications. For 200 mV range add an additional 120 mV of uncertainty. Specifications apply with sink mode enabled.

¹⁶ For sink operation (quadrants II and IV) without sink mode enabled, add 0.06 % of limit range to the corresponding current limit accuracy specifications. Specifications apply with sink mode enabled.

ADDITIONAL MEASUREMENT CHARACTERISTICS

Contact check specifications ^{17,18}	Speed	Maximum measurement time to memory for 60 Hz (50 Hz)	Accuracy (1 year) 23° C ± 5° C ± (% reading + ohms)
	Fast	1.1 ms (1.2 ms)	5 % + 10 Ω
	Medium	4.1 ms (5 ms)	5 % + 1 Ω
	Slow	36 ms (42 ms)	5 % + 0.3 Ω
Current measure settling time ¹⁹	Time required to reach within 0.1 % of final value after source level command is processed on a fixed range Values below for Vout = 2 V		
	Current range	Settling time	
	1 mA	< 100 μs	
Input impedance	> 100 TΩ		

ADDITIONAL CHARACTERISTICS

Maximum load impedance	Normal mode 10 nF	High-capacitance mode 50 μF
Common mode voltage	250 V DC	
Common mode isolation	> 1 GΩ < 4500 pF	
Sense high input impedance	> 100 TΩ	
Maximum sense lead resistance	1 kΩ for rated accuracy	
Overrange	101 % of source range 102 % of measure range	

¹⁷ Includes measurement of SENSE HI to HI and SENSE LO to LO contact resistances.¹⁸ Contact check is not available with the Model 2634B.¹⁹ Compliance equal to 100 mA. Delay factor set to 1

HIGH CAPACITANCE MODE^{20,21,22}

Accuracy specifications	Accuracy specifications are applicable in both Normal and High Capacitance Modes.	
Voltage source output settling time	Time required to reach within 0.1 % of final value after source level command is processed on a fixed range. Current limit = 1 A	
	Voltage range	Settling time with $C_{load} = 4.7 \mu\text{F}$
	200 mV	< 600 μs
	2 V	< 600 μs
	20 V	< 1.5 ms
	200 V	< 20 ms
Current measure settling time	Time required to reach within 0.1 % of final value after source level command is processed on a fixed range Values below for $V_{out} = 2 \text{ V}$ unless noted	
	Current range	Settling time
	1.5 A and 1A	< 120 μs ($R_{load} > 6 \Omega$)
	100 mA and 10 mA	< 100 μs
	1 mA	< 3 ms
	100 μA	< 3 ms
	10 μA	< 230 ms
	1 μA	< 230 ms
Capacitor leakage performance Using HIGH-C scripts ²³	200 ms @ 50 nA <ul style="list-style-type: none"> ▪ Load = 5 μF in parallel with 10 MΩ ▪ Test: 5 V step and measure 	
Mode change delay	Current ranges of 100 μA and above: <ul style="list-style-type: none"> ▪ 11 ms delay for both in and out of High Capacitance Mode Current ranges below 100 μA : <ul style="list-style-type: none"> ▪ 250 ms delay into High Capacitance Mode ▪ 11 ms delay out of High Capacitance Mode 	
Voltmeter input impedance	30 G Ω in parallel with 3300 pF	
Noise 10 Hz to 20 MHz	< 30 mV peak-peak <ul style="list-style-type: none"> ▪ 20 V range 	
Range change overshoot	Voltage: <ul style="list-style-type: none"> ▪ < 400 mV + 0.1 % of larger range ▪ For 20 V range and below ▪ Overshoot into a 200 kΩ load, 20 MHz bandwidth 	

²⁰ High Capacitance Mode specifications are for DC measurements only.²¹ 100 nA range is not available in High Capacitance Mode.²² High Capacitance Mode utilizes locked ranges. Auto range is disabled.²³ Part of KI Factory scripts. See the Series 2600B Reference Manual for details.

MEASUREMENT SPEED CHARACTERISTICS^{24,25,26}**Maximum sweep operation rates (operations per second) for 60 Hz (50 Hz):**

A/D converter speed	Trigger origin	Measure to memory (using user scripts)	Measure to GPIB (using user scripts)	Source measure to memory (using user scripts)	Source measure to GPIB (using user scripts)	Source measure to memory (using sweep API)	Source measure to GPIB (using sweep API)
0.001 NPLC	Internal	20000 (20000)	9800 (9800)	7000 (7000)	6200 (6200)	12000 (12000)	5900 (5900)
0.001 NPLC	Digital I/O	8100 (8100)	7100 (7100)	5500 (5500)	5100 (5100)	11200 (11200)	5700 (5700)
0.01 NPLC	Internal	4900 (4000)	3900 (3400)	3400 (3000)	3200 (2900)	4200 (3700)	4000 (3500)
0.01 NPLC	Digital I/O	3500 (3100)	3400 (3000)	3000 (2700)	2900 (2600)	4150 (3650)	3800 (3400)
0.1 NPLC	Internal	580 (480)	560 (470)	550 (465)	550 (460)	560 (470)	545 (460)
0.1 NPLC	Digital I/O	550 (460)	550 (460)	540 (450)	540 (450)	560 (470)	545 (460)
1.0 NPLC	Internal	59 (49)	59 (49)	59 (49)	59 (49)	59 (49)	59 (49)
1.0 NPLC	Digital I/O	59 (49)	59 (49)	59 (49)	59 (49)	59 (49)	59 (49)

Maximum single measurement rates (operations per second) for 60 Hz (50 Hz):

A/D converter speed	Trigger origin	Measure to GPIB	Source measure to GPIB	Source measure pass/fail to GPIB
0.001 NPLC	Internal	1900 (1800)	1400 (1400)	1400 (1400)
0.01 NPLC	Internal	1450 (1400)	1200 (1200)	1100 (1100)
0.1 NPLC	Internal	450 (390)	425 (370)	425 (375)
1.0 NPLC	Internal	58 (48)	57 (48)	57 (48)

²⁴ Tests performed with a Model 2636B using the following equipment: Computer hardware (Intel® Pentium® 4 2.4 GHz, 2 GB RAM, National Instruments™ PCI-GPIB); driver (NI-488.2 Version 2.2 PCI-GPIB); software (Microsoft® Windows® XP, Microsoft® Visual Studio® 2010, VISA™ version 4.1).

²⁵ Exclude current measurement ranges less than 1 mA.

²⁶ With default measurement delays and filters disabled.

Maximum measurement range change rate	> 7000 per second for > 10 μ A. When changing to or from a range \geq 1 A, maximum rate is > 2200/second.
Maximum source range change rate	> 400 per second > 10 μ A. When changing to or from a range \geq 1 A, maximum rate is > 190/second.
Maximum source function change rate	> 1000 per second
Command processing time	< 1 ms <ul style="list-style-type: none"> ▪ Maximum time required for the output to begin to change after receiving the <code>smua.source.levelv</code> or <code>smua.source.leveli</code> command.

TRIGGERING AND SYNCHRONIZATION CHARACTERISTICS

Triggering

Trigger in to trigger out	0.5 μ s
Trigger in to source change²⁷	10 μ s
Trigger timer accuracy	\pm 2 μ s
Source change²⁷ after LXI trigger	280 μ s

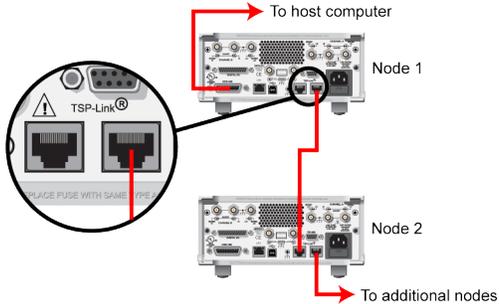
Synchronization

Multi-node synchronized source change²⁷	< 0.5 μ s
Single-node synchronized source change²⁷	< 0.5 μ s

²⁷ Fixed source range with no polarity change.

SUPPLEMENTAL INFORMATION

Front-panel interface	Two-line vacuum fluorescent display (VFD) with keypad and navigation wheel
Display	<ul style="list-style-type: none"> ▪ Show error messages and user-defined messages ▪ Display source and limit settings ▪ Show current and voltage measurements ▪ View measurements stored in dedicated reading buffers
Keypad operations	<ul style="list-style-type: none"> ▪ Change host interface settings ▪ Save and restore instrument setups ▪ Load and run factory and user-defined test scripts that prompt for input and send results to the display ▪ Store measurements into dedicated reading buffers
Programming	<p>Embedded Test Script Processor (TSP®) scripting engine is accessible from any host interface:</p> <ul style="list-style-type: none"> ▪ Responds to individual instrument control commands ▪ Responds to high-speed test scripts comprised of remote commands and test script language (TSL) statements (for example, branching, looping, and math) ▪ Able to execute high-speed test scripts stored in memory without host intervention
Minimum user memory available	16 MB (approximately 250,000 lines of TSP code)
Test Script Builder	<p>Integrated development environment for building, running, and managing TSP scripts; includes an instrument console for interactive communication with any TSP-enabled instrument</p> <p>Requires:</p> <ul style="list-style-type: none"> ▪ VISA (NI-VISA included on the Product Information CD-ROM) ▪ Microsoft® .NET Framework (included on the Product Information CD-ROM) ▪ Keithley I/O Layer (included on the Product Information CD-ROM) ▪ Intel® Pentium III 800 MHz or faster personal computer ▪ Microsoft® Windows® 2000, XP, Vista®, or 7
TSP® Express (embedded)	<p>Tool that allows you to quickly and easily perform common I-V tests without programming or installing software</p> <p>To run TSP Express, you need:</p> <ul style="list-style-type: none"> ▪ Java™ Platform, Standard Edition 6 or 7 ▪ Microsoft® Internet Explorer®, Mozilla® Firefox®, or another Java-compatible web browser
Software interface	TSP™ Express (embedded), direct GPIB/VISA, read/write with Microsoft® Visual Basic®, Visual C/C++®, Visual C#®, LabVIEW™, CEC TestPoint™ Data Acquisition Software Package, NI LabWindows™/CVI, and so on.

<p>Reading buffers</p>	<p>Nonvolatile memory uses dedicated storage areas reserved for measurement data. Reading buffers are arrays of measurement elements. Each element can store the following items:</p> <ul style="list-style-type: none"> ▪ Measurement ▪ Source setting (at the time the measurement was taken) ▪ Measurement status ▪ Range information ▪ Timestamp <p>Reading buffers can be filled using the front-panel STORE key, and retrieved using the RECALL key or host interface.</p>
<p>Buffer size, with timestamp and source setting</p>	<p>> 60,000 samples</p>
<p>Buffer size, without timestamp and source setting</p>	<p>> 140,000 samples</p>
<p>System expansion²⁸</p>	<p>The TSP-Link expansion interface allows TSP-enabled instruments to trigger and communicate with each other. See the figure below.</p> <div style="text-align: center;">  <p>The diagram shows two System SourceMeter units, labeled 'Node 1' and 'Node 2'. Node 1 is connected to a host computer via a red arrow labeled 'To host computer'. Node 2 is connected to Node 1 via a red arrow. A red arrow from Node 2 points to the right, labeled 'To additional nodes'. A circular inset shows a close-up of the TSP-Link connectors on the front panel, with a red arrow pointing to the right connector. A warning symbol and the text 'TSP-Link' are visible in the inset. Below the inset, the text 'PLACE FUSE WITH SAME POLARITY' is visible.</p> </div> <p>Each Model 2635B and 2636B has two TSP-Link connectors to make it easier to connect instruments in a sequence.</p> <ul style="list-style-type: none"> ▪ Once source-measure instruments are interconnected through the TSP-Link expansion interface, a computer can access all of the resources of each source-measure instrument through the host interface of any System SourceMeter. ▪ A maximum of 32 TSP-Link nodes can be interconnected. Each source-measure instrument uses one TSP-Link node

Timing

<p>Timer</p>	<p>Free-running 47-bit counter with 1 MHz clock input. Reset each time instrument power is turned on. If the instrument is not turned off, the timer is automatically reset to zero (0) every four years.</p>
<p>Timestamp</p>	<p>TIMER value is automatically saved when each measurement is triggered</p>
<p>Resolution</p>	<p>1 μs</p>
<p>Timestamp accuracy</p>	<p>\pm100 ppm</p>

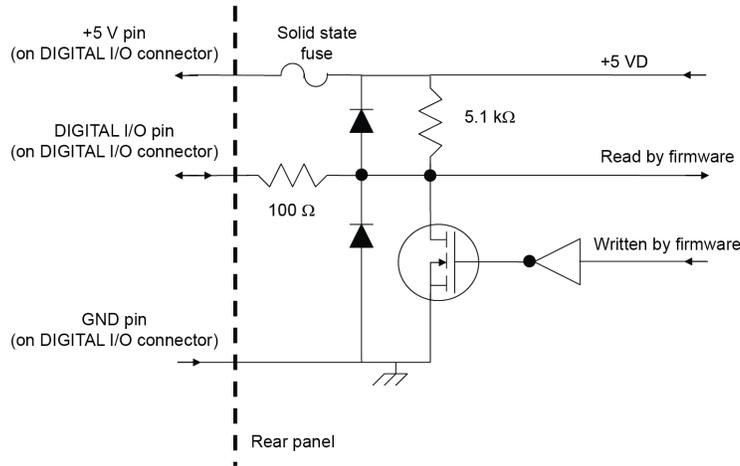
²⁸ TSP-Link is not available with the Model 2634B.

GENERAL SPECIFICATIONS

IEEE-488	IEEE Std 488.1 compliant. Supports IEEE Std 488.2 common commands and status model topology
RS-232	<ul style="list-style-type: none"> ▪ Baud rates from 300 bps to 115,200 bps ▪ Programmable number of data bits, parity type, and flow control (RTS/CTS hardware or none) ▪ When not programmed as the active host interface, the Models 2634B, 2635B and 2636B can use the RS-232 interface to control other instruments
Ethernet	RJ-45 connector, LXI version 1.4 Core 2011, 10/100BaseT, Auto-MDIX
LXI compliance	LXI version 1.4 Core 2011
Expansion interface²⁹	<ul style="list-style-type: none"> ▪ The TSP-Link® expansion interface allows TSP-enabled instruments to trigger and communicate with each other ▪ Cable type: Category 5e or higher LAN crossover cable ▪ 9.84 ft (3 m) maximum between each TSP-enabled instrument
USB Control (Rear)	USB 2.0 Device: USB-TMC488 protocol
USB File System (Front)	USB 2.0 Host: Mass storage class device
Power supply	100 V to 240 V AC, 50 Hz or 60 Hz (auto sensing), 240 VA maximum
Cooling	Forced air; side intake and rear exhaust. One side must be unobstructed when rack mounted.
Warranty	1 year
EMC	Conforms to European Union EMC Directive
Safety	NRTL listed to UL61010-1:2008 and CSA C22.2 No. 61010-1 Conforms to European Union Low Voltage Directive
Environment	For indoor use only Altitude: Maximum 6562 ft (2000 m) above sea level Operating: 0 °C to 50 °C, 70 % relative humidity up to 35 °C. Derate 3 % relative humidity/°C, 35 °C to 50 °C Storage: -25 °C to 65 °C
Dimensions	Rack mount: 3.5 in. high × 8.4 in. wide × 17.5 in. deep (89 mm × 213 mm × 460 mm) Bench configuration (with handle and feet): 4.1 in. high × 9.4 in. wide × 17.5 in. deep (104 mm × 238 mm × 460 mm)
Weight	2635B: 10.4 lb (4.75 kg) 2634B and 2636B: 12.0 lb (5.50 kg)

²⁹ TSP-Link is not available with the Model 2634B.

Digital I/O interface³⁰



Connector: 25-pin female D

Input/output pins: 14 open drain I/O bits

Absolute maximum input voltage: 5.25 V

Absolute minimum input voltage: -0.25 V

Maximum logic low input voltage: 0.7V, +850 μ A max

Minimum logic high input voltage: 2.1 V, +570 μ A

Maximum source current (flowing out of digital I/O bit): +960 μ A

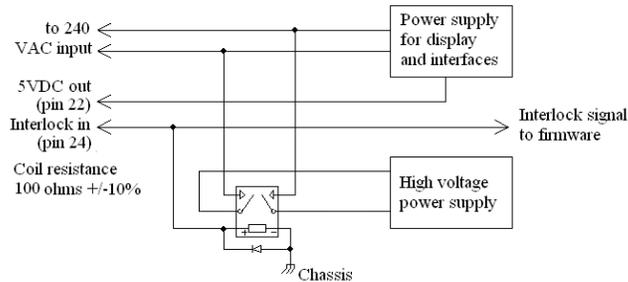
Maximum sink current at maximum logic low voltage (0.7): -5.0 mA

Absolute maximum sink current (flowing into digital I/O pin): -11 mA

5 V power supply pin: Limited to 250 mA, solid-state fuse protected

Safety interlock pin:

Active high input > 4.0 V at 50 mA must be externally applied to this pin to allow the high-voltage output to operate. Connect the 5 V output and the interlock input of the 25-pin digital I/O connector on the back of the Model 2634B, 2635B and 2636B to the switch in your fixture. The output will be disabled when the interlock signal is < 4.0 V. Absolute maximum input is -0.4 V to +6.0 V.



³⁰ The Digital I/O feature is not available with the Model 2634B. Only +5 V, GND and INTERLOCK pins are available with the Model 2634B.