B2900B/BL Precision Source/Measure Unit (SMU)

B2900B/BL series Graphical SMU solves precision measurement challenges and improve test efficiency from lab to manufacturing for a wide range of applications at the best-in-class cost performance

Broad application by a single instrument

- Wide application coverage by integrated 4-quadrant source/measure capabilities up to 210 V, 3 A DC/10.5 A pulsed
- Flexible output waveform by pulse, sweep and list sweep function

Capturing true characteristics with superior high speed digitizing and high resolution

- High sourcing and measurement resolution: 10 fA/100 nV
- Fast setting/digitizing interval 10 μs/100 kpts/s

Test time reduction

- Fastest sweep measurement available in a benchtop SMU
- Reducing execution time of repeated test commands by programming memory

Test efficiency improvement

- Innovative GUI: I-V (current voltage) measurement without PC programming
- Multiple software control options, allowing you to choose the solution that best fits your particular application





The Innovative GUI improves usability and productivity of bench-top tests, debug and characterizations dramatically.

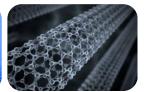


Typical applications

- Optical devices (laser diodes, photo diodes)
- Organic devices (OLEDs)
- Photovoltaic (solar) cells
- Nano-technology materials
- Power management devices (LDOs)
- Semiconductor devices (FETs, transistors)
- Resistors, diodes, varistors, and other component devices







Semiconductors

Green energy devices

Research and education



Multiple choice of a cost-effective solution for your needs

Model	No. of channel	Max output			Source			Measurement			Minimum
					Max digits	Min. resolution		Max digits	Min. resolution		digitizing
		Voltage	Current (DC)	Current (Pulse)		Voltage	Current		Voltage	Current	interval
B2901BL	1	21 V	1.515 A	N/A	5½	1 µV	10 pA	6½	100 nV	1 pA	200 µsec
B2910BL	1	210 V	1.515 A	N/A	5½	1 µV	100 fA	6½	100 nV	10 fA	50 µsec
B2901B	1				5½	1 11/	1 5 1	6½	100 nV	100 fA	20 11000
B2902B	2	210 V	3.03 A	10.5 A	3/2	1 µV	1 pA	U/2	100 110	100 IA	20 µsec
B2911B	1				6½	100 nV	10 fA	6½	100 nV	10 fA	10 µsec
B2912B	2				U/2	100 110	IUIA	0/2	100 110	IUIA	10 µSec

Options and accessories

Model	Option	Description
B2901BL B2910BL	1A7	Calibration + Uncertainties + Guardbanding (Not Accredited)
B2901B B2902B	A6J	ANSI Z540 compliant calibration
B2911B B2912B	UK6	Commercial calibration certificate with test data
N1297A		Banana – Triaxial adaptor for 2-wire connection
N1297B		Banana – Triaxial adaptor for 4-wire connection
N1294A	031	GPIO-BNC Trigger adapter
	032	Digital I/O Trigger Cable for Multiple Unit Control
N1295A		Device/component test fixture

B2900 precision instrument family

The B2900 family contains products that perform both precision sourcing and precision measurement.





B2960B Low-Noise Power Source

B2980A Femto/Picoammeter & Electrometers

www.keysight.com/find/b2900

Software control options

Software control option	Description
BenchVue	Source constant voltage or current and control other
	Keysight instruments
Graphical Web Interface	Use your web browser to make basic measurements
Quick I/V Measurement Software	A common software solution for the entire B2900 family
EasyEXPERT group+	Powerful software for detailed characterization and analysis
	of devices, circuits and materials

Learn more at: www.keysight.com

