

B2900 Precision Instrument Family

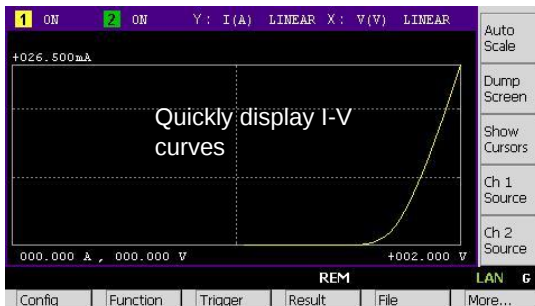
The B2900 precision instrument family helps you achieve critical precision source and measurement goals.



B2900B/BL Series Precision Source / Measure Units

Precision source and measurement capabilities with intuitive GUI

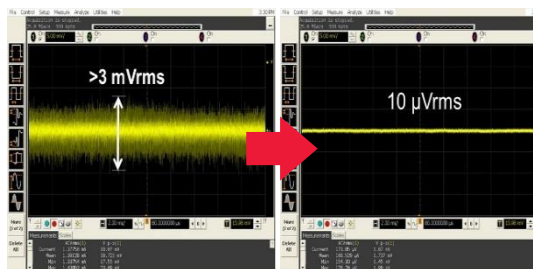
- Display I-V curves and other types of graphs on the front panel
- Robust 6.5-digit sourcing and measurement resolution
- Wide application coverage from 100 nV/10 fA to 210 V/3 A DC and 10.5 A pulsed
- Multiple software control options, allowing you to choose the solution that best fit your particular application



B2960B Series Low Noise Power Sources

High precision voltage and current sources with optimized noise performance

- 10 μ Vrms ultra-low noise precision source
- Unmatched current and voltage sourcing resolution (6.5-digit, 100 nV/10 fA)
- Innovative and precision ARB capability; 6 built-in waveforms with speeds up to 10 kHz

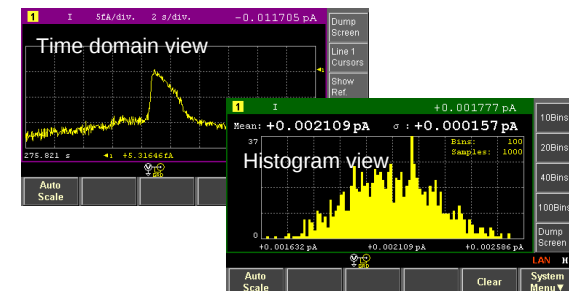


The B2900B/BL and B2960B Series are PathWave BenchVue software enabled.

B2980B Series Femto/Picoammeters and Electrometers

Measure materials and devices with confidence down to 0.01 fA and up to 10 P Ω

- Robust 2 pA range and 0.01 fA resolution provide unprecedented performance
- Integrated 1000 V source supports resistance measurements up to 10 P Ω
- Battery model eliminates AC power line noise
- Graphical time domain and histogram views facilitate quick debug and analysis



Key Specifications

Model number						B2961B/62B								B2981B	B2983B	B2985B	B2987B				
						B2901BL	B2910BL	B2901B/02B		B2911B/12B		No Filter	N1298C (Low noise)					N1298B (Ultra-low noise)		N1298A (High current ultra-low noise)	
Type						Source/Measure Unit						Precision Voltage/Current Source						Femto/Picoammeter		Electrometer	
Number of channels						1	1	1 or 2		1 or 2		1									
Source	Resolution					5.5 digit	5.5 digit	5.5 digit	6.5 digit	6.5 digit						—		(See Note) ²			
	Max. output	Current (DC)				1.5 A	1.5 A	3.03 A ¹		3.03 A ¹	3.03 A	105 mA	500 mA	—		—					
		Voltage				21 V	210 V	210 V		210 V	210 V	42 V	21 V	—		1000 V					
	Min. resolution	Current				10 pA	100 fA	1 pA	10 fA	10 fA	10 pA	10 pA	1 nA	—		—					
		Voltage				1 μV	1 μV	1 μV	100 nV	100 nV						—		700 μV			
	Voltage output noise					3 mVrms	3 mVrms	3 mVrms		3 mVrms	350 μVrms	10 μVrms	10 μVrms	—		1.6 mVrms					
Measurement	Resolution					6.5 digit	6.5 digit	6.5 digit		4.5 digit						6.5 digit					
	Max.	Current (DC)				1.5 A	1.5 A	3.03 A ¹		3.03 A ¹	3.03 A	105 mA	500 mA	20 mA							
		Voltage				21 V	210 V	210 V		210 V	210 V	42 V	21 V	—		20 V					
		Resistance				—				—	—	—	—	—		10 PΩ					
		Charge				—				—	—	—	—	—		2 μC					
	Min. resolution	Current				1 pA	10 fA	100 fA	10 fA	1 pA	1 nA	1 nA	100 nA	0.01 fA							
		Voltage				100 nV	100 nV	100 nV		100 nV						—		1 μV			
		Resistance				—				—						—		1 Ω			
		Charge				—				—						—		1 fC			
DC sweep functions						Linear/log single, linear/log double, list						Linear/log single, linear/log double, list						—		Linear single/double, list	
ARB functions						—						Sinusoid, square, trapezoid, ramp, triangle, exponential, user defined						—		Square	
Battery operation						—						—						—	Yes	—	Yes
Software control options	PathWave BenchVue					Yes						Yes						—			
	Graphical Web Interface					Yes						Yes						Yes			
	Pathwave IV Curve Software					Yes						Yes						—			
	EasyEXPERT group+					Yes						—						—			

- 10.5 A(pulse)
- 700 μ V resolution for 20V, 35 mV resolution for 1000V range.

Refer to Keysight.com website for product details, technical overviews and other information.

Please visit at www.keysight.com/find/B2900

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