

B2900 Precision Instrument Family

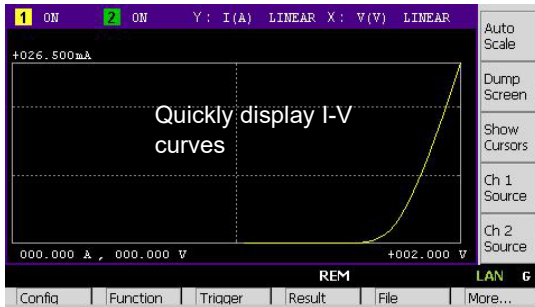
The B2900 precision instrument family helps you achieve critical precision source and measurement goals.



B2900B/BL Series Precision Source / Measure Units

Precision source and measurement capabilities with intuitive GUI

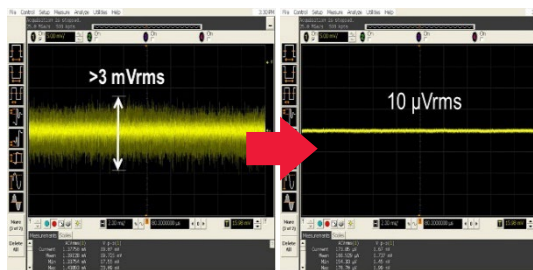
- Display I-V curves and other types of graphs on the front panel
- Best-in-class 6.5-digit sourcing and measurement resolution
- Wide application coverage from 100 nV/10 fA to 210 V/3 A DC and 10.5 A pulsed
- Multiple software control options, allowing you to choose the solution that best fit your particular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



B2960B Series Low Noise Power Sources

High precision voltage and current sources with best-in-class 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

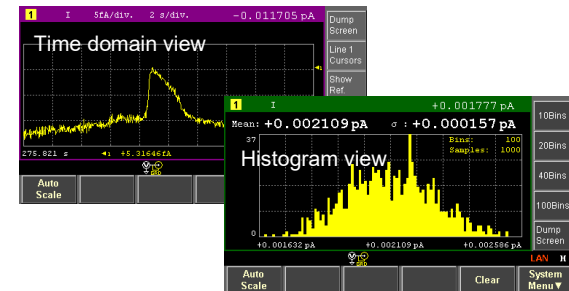


The B2900B/BL and B2960B Series are PathWave BenchVue software enabled.

B2980B Series Femto/Picoammeters and Electrometers

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

- Best-in-class 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						B2901BL		B2910BL		B2901B/02B		B2911B/12B		B2961B/62B				B2981B		B2983B		B2985A		B2987A							
														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		6.5 digit		1 or 2						1											
Source						Resolution		5.5 digit		5.5 digit		5.5 digit		6.5 digit		6.5 digit						—				5.5 digit					
						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		100 nV		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		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						—						—							

1. 10.5 A(pulse)

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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