

# B2900 Precision Instrument Family

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

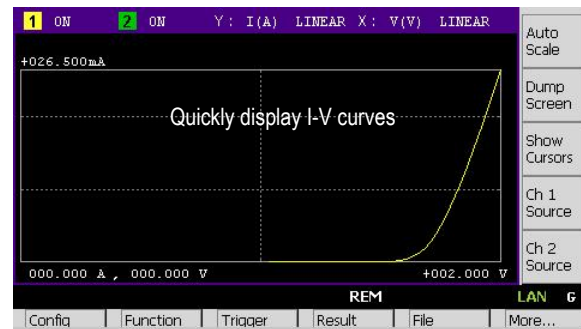


## B2900B/BL Series Precision Source/Measure Units



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

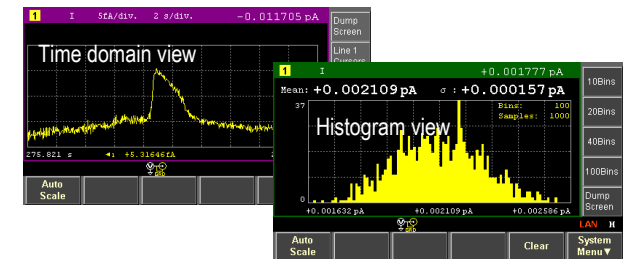
- 10  $\mu$ Vrms ultra-low noise precision source
- Unmatched current and voltage sourcing resolution (6.5-digit, 100 nV/10 fA)
- Innovative and precision ARB capability; 6 built-in waveforms with speeds up to 10 kHz



## B2980B Series Femto/Picoammeters and Electrometers

Measure materials and devices with confidence down to 0.01 fA and up to 10 P $\Omega$

- 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 $\Omega$
- Battery model eliminates AC power line noise
- Graphical time domain and histogram views facilitate quick debug and analysis



Learn more at: [www.keysight.com](http://www.keysight.com)

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## 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		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 <sup>1</sup>		3.03 A <sup>1</sup>	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	10 nA	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 <sup>1</sup>		3.03 A <sup>1</sup>	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	BenchVue	—		Yes		Yes				—			
	Graphical Web Interface	—		Yes		Yes				Yes			
	Quick I/V Measurement Software	—		Yes		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](http://www.keysight.com/find/B2900)

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