

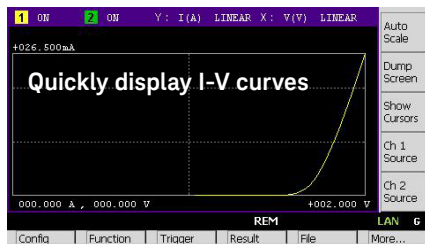
# Keysight B2900 Precision Instrument Family

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

## B2900A Series Precision Source/Measure Units

Precision source and measurement capabilities with intuitive GUI

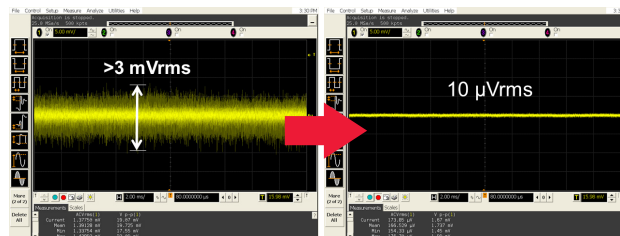
- Display I-V curves and other types of graphs on the front panel
- Best-in-class 6.5-digit sourcing and measurement resolution
- Wide application coverage from 100 nV/10 fA to 210 V/3 A DC and 10.5 A pulsed



## B2960A Series Low Noise Power Sources

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

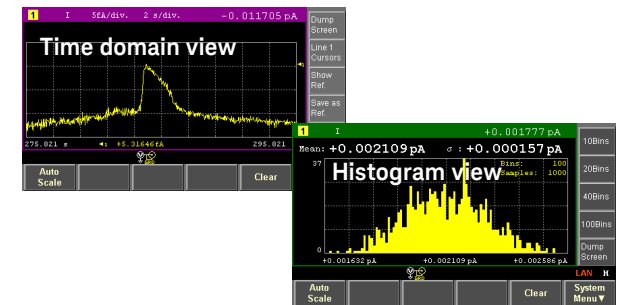
- 10  $\mu$ Vrms ultra-low noise precision source
- Unmatched current and voltage sourcing resolution (6.5-digit, 100 nV/10 fA)
- Innovative and precision ARB capability; 6 built-in waveforms with speeds up to 10 kHz



## B2980A 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



## Key specifications

Model number		B2901A/ B2902A	B2911A/ B2912A	B2961A/ B2962A	B2961A/62A with N1294A-022 (Low noise)	B2961A/62A with N1294A-021 (Ultra-low noise)	B2981A	B2983A	B2985A	B2987A	
Type		Source measure unit 1			Precision Voltage/Current Source			Femto/Picoammeter		Electrometer	
Number of channels		or 2			1 or 2			1			
Source	Max. output	Resolution	5.5-digit	6.5-digit	6.5-digit			–		5.5-digit	
		Current	3.03 A (DC), 10.5 A (pulsed)		3.03 A	3.03 A	105 mA	–			
		Voltage	210 V		210 V	210 V	42 V	–		1000 V	
	Min. resolution	Current	1 pA	10 fA				–		–	
		Voltage	1 $\mu$ V	100 nV	100 nV			–		700 $\mu$ V	
	Voltage output noise		3 mVrms		3 mVrms	350 $\mu$ Vrms	10 $\mu$ Vrms	–		1.6 mVrms	
Measurement	Max.	Resolution	6.5 digit		4.5 digit			6.5 digit			
		Current	3.03 A (DC), 10.5 A (pulsed)		3.03 A (DC), 10.5 A (pulsed)	3.03 A (DC, pulsed)	105 mA (DC), 0.1 A (pulsed)	20 mA			
		Voltage	210 V		210 V	210 V	42 V	–		20 V	
		Resistance	–		–	–	–	–		10 PQ	
		Charge	–		–	–	–	–		2 $\mu$ C	
	Min. resolution	Current	100 fA	10 fA	10 fA	10 pA	10 pA	0.01 fA			
		Voltage	100 nV		100 nV			–		1 $\mu$ V	
		Resistance	–		–			–		1 $\Omega$	
Charge		–		–			–		1 fC		
DC sweep functions		Linear/log single, linear/ log double, list			–			–		Linear single, linear double, list Square	
ARB functions		–			Sinusoid, square, trapezoid, ramp, triangle, exponential user de ined			–		–	
Battery operation		–			–			–	Yes	–	Yes

### Three-Year Warranty



[www.keysight.com/find/ThreeYearWarranty](http://www.keysight.com/find/ThreeYearWarranty)

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

### Keysight Assurance Plans



[www.keysight.com/find/AssurancePlans](http://www.keysight.com/find/AssurancePlans)

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

[www.keysight.com/find/b2980a](http://www.keysight.com/find/b2980a)