

Keysight Clamp-on Current Probes

Safe, Easy Way to Make Current Measurements From DC to 150 MHz

Keysight's current probes sense current flowing through a conductor and convert it to a voltage that can then be viewed and measured on an oscilloscope. These probes use a hybrid technology that includes a Hall effect sensor (which senses the DC current) and a current transformer (which senses the AC current). Using split core construction, the current probes easily clip on and off a conductor, making it unnecessary to make an electrical connection to the circuit. Measurement bandwidths from DC to 150 MHz are available.



Current Measurements Made Easy

- Split core construction for convenient circuit connection
- Easily clip on and off a conductor – no electrical connection to the circuit necessary
- Hybrid technology to measure both AC and DC



Wide Variety of Models

- Best-in-class bandwidth from DC to 150 MHz
- Input current from DC to 500A
- Clamp sensitivity down to mA/div (N7026A)



Accurate and Easy-to-Use

- Low noise = high accuracy
- Both AutoProbe interface and BNC interface models available
- Autoprobe models are automatically recognized and configured by your Keysight oscilloscope

Which Clamp-on Current Probe is Right for You?

	1146B	1147B / N2893A	N2780B/L Series (5 models)	N7026A
BW	100kHz	50MHz / 100MHz	2MHz / 10MHz / 50MHz / 100MHz	150MHz
Input range	DC - 100A	DC - 10A	DC-500A, 150A, 30A, 30A	DC - 30A
Minimum Measurable Current		5 mA	N2780B/81B: 20 mA N2782B/83B/83L: 5 mA	~2mA
Probe Interface	BNC (1M Ω , requires battery)	AutoProbe (1M Ω)	BNC (1M Ω , requires N2779A power supply)	AutoProbe (1M Ω , requires power adapter for > 5A)
Key Benefits	Low cost	<ul style="list-style-type: none"> • AutoProbe interface for auto probe recognition / configuration • Auto degauss / offset (on N2893A) 	<ul style="list-style-type: none"> • BNC interface for broad scope compatibility • N2783L (80MHz, 5m long cable) for long-reach apps 	<ul style="list-style-type: none"> • High sensitivity (1mA/div) • 150 MHz BW • 30A wide input • 4 per InfiniiVision oscilloscope

Ordering Information

- 1146B: 100 kHz, 100A
- 1147B: 50 MHz, 10A with AutoProbe
- N2893A: 100 MHz, 10A with AutoProbe
- N7026A: 150 MHz, 30A with AutoProbe
- N2780B: 2 MHz, 500A
- N2781B: 10 MHz, 150A
- N2782B: 50 MHz, 30A
- N2783B: 100 MHz, 30A
- N2779A: 3-Channel Power Supply for N2780B/81B/82B/83B

Oscilloscope Compatibility

- **1146B, N278xB with N2779A**
 - Compatible with any oscilloscope with 1 M Ω BNC input
 - Infiniium 90000A with E2697A
- **1147B, N2893A, N7026A**
 - InfiniiVision 3000T, 4000X, and 6000X
 - Infiniium S Series and 9000A
 - Infiniium 90000X, V, Z, and Q Series with N5449A

For more information, visit www.keysight.com/find/currentprobes