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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 1147B

Keysight 1147B 50 MHz AC/DC Current Probe AutoProbe The Keysight 1147B is the AutoProbe 50 MHz current probe replacing 1147A. OEM Infiniium probes data sheet lists DC to 50 MHz, 7 ns rise time, 15 A peak / 15 A DC / 10 Arms continuous, 30 A peak non-continuous, 0.1 V/A, plus or minus 1 percent of reading plus 10 mA (DC and 45-66 Hz), and 2.5 mArms noise. Wideband current on Infiniium 9000 and InfiniiVision AutoProbe 1 Mohm inputs. Not compatible with Infiniium 80000/90000 series The Keysight 1147B is the AutoProbe 50 MHz current probe replacing 1147A. OEM Infiniium probes data sheet lists DC to 50 MHz, 7 ns rise time, 15 A peak / 15 A DC / 10 Arms continuous, 30 A peak non-continuous, 0.1 V/A, plus or minus 1 percent of reading plus 10 mA (DC and 45-66 Hz), and 2.5 mArms noise. Wideband current on Infiniium 9000 and InfiniiVision AutoProbe 1 Mohm inputs. Not compatible with Infiniium 80000/90000 series Maximum Current Continuous: 15 A peak, 15 A DC, 10 Arms



MODEL

**Agilent / Keysight
1147B**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1147B

LISTING

<https://aumictechlabs.com/products/1147b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 1147B is an active AC/DC current probe engineered for non-intrusive, high-fidelity current measurements in dynamic circuit environments. Using Hall effect sensing at DC and low frequencies, then transitioning to current transformer operation at higher frequencies, the probe delivers flat response across DC to 50 MHz with noise below 2.5 mA RMS. Its split-core clamp design enables fast connection without circuit interruption, making it ideal for transient analysis in switching supplies, motor controllers,

and inverter circuits. The 1147B operates at voltage ratings to 300 V and supports peak currents to 30 A (non-continuous) or 15 A continuous/DC. Easy offset calibration and a degaussing switch minimize measurement drift and residual magnetism errors.

Technical Specifications

Bandwidth: DC to 50 MHz (flat frequency response)

Current Rating: 30 A peak (non-continuous), 15 A peak (continuous), 15 A DC, 10 A continuous

RMS Noise: <2.5 mA RMS

Amplitude Accuracy: $\pm 1\%$ of reading ± 10 mA

Probe-Only Accuracy (DC or 45–66 Hz): $\pm 1\%$ of reading ± 1 mV

Risetime: 7 ns

Voltage Rating: 300 V

Cable Length: 1.5 m

Weight: 0.47 lbs

Key Features

Hybrid measurement principle: Hall effect (DC–low AC) and current transformer (high-frequency) modes

Low insertion loss for minimal circuit disruption

Easy offset zero calibration and demagnetizing switch for rapid setup

Protection function blocks output on excessive input

Split-core construction for non-intrusive current insertion

Typical Applications

Motor controller transient analysis

Switching power supply current profiling

Inverter and current amplifier measurements

Sensing, instrumentation, metering, and test & measurement

Compatibility & Integration

The 1147B connects via Keysight AutoProbe interface and integrates directly with InfiniiVision and Infiniium oscilloscopes featuring 1 M Ω AutoProbe inputs. Recommended for 3000 X, 4000 X, 5000, 6000, and 7000 Series instruments. Use with 80000/90000 Series requires N278xA probe, N2779A supply, and E2697A adapter; 90000 X-Series requires N5449A adapter.

1147B Characteristics / Specifications

PARAMETER	VALUE
Model	1147B
Instrument Type	AC/DC current probe
Bandwidth	dc to 50 MHz minus 3 dB
Rise Time	7 ns or less
Maximum Current Continuous	15 A peak, 15 A DC, 10 Arms
Maximum Peak Noncontinuous	30 A peak
Output Voltage Rate	0.1 V/A
Amplitude Accuracy	plus or minus 1 percent of reading plus 10 mA (DC and 45 to 66 Hz at rated current)
Noise	2.5 mArms or less (20 MHz measuring instrument)
Temperature Coefficient	plus or minus 2 percent or less (0 C to 40 C)
External Field Effect	maximum 20 mA equivalent in 400 A/m DC to 60 Hz
Maximum Rated Power	3 VA with rated current
Maximum Input Voltage	300 V CATIMeasurable Conductor Diameter: 5 mm (0.2 in)
Probe Interface	AutoProbe 1 Mohm terminated
Sensor Cable Length	approximately 1.5 m
Power Supply Cable Length	approximately 1 m
Reference Temperature	23 C plus or minus 3 C
Hundred Mhz Sibling	N2893A DC to 100 MHz
Predecessor	1147A
Manufacturer	HP Agilent Keysight
Scope Exclusion	not compatible with Infiniium 80000 and 90000 series

1147B Specifications

PARAMETER	VALUE
Keysight 1147B 50 MHz AC/DC Current Probe AutoProbe	Overview
Applications	Wideband current on Infiniium 9000 and InfiniiVision AutoProbe 1 Mohm inputs.
AutoProbe powered from the oscilloscope	DC to 50 MHz
Not compatible with Infiniium 80000/90000 series	N2893A is the 100 MHz sibling
Technical Specifications	Model: 1147B

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Keysight Infiniium Oscilloscope Probes and Accessories data sheet 1147B/N2893A operating-characteristics table. Guaranteed at 23 plus or minus 3 C.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.