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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 1147A

The Agilent 1147A isaDC to 50 MHz AutoProbe current probe. OEM 1147A user's guide lists 15 A peak continuous (10 Arms), 50 A peak for pulses of 10 us or less, 0.1 V/A sensitivity, plus or minus 1 percent of reading plus 1 mV accuracy (DC or 45-66 Hz), and less than or equal to 2.5 mArms noise with 20 MHz BW limiting. Motor-drive, switching-supply, and inductive-load current on InfiniiVision and Infiniium AutoProbe scopes. Split-core Hall plus CT wideband current probe Maximum Peak Pulse: 50 A for pulse widths 10 us or less Reference Temperature: 23 C plus or minus 3 C Bnc Sibling: N2774A same 50 MHz probe with standard BNC Mechanical Package: split core current probe From Agilent 1147A 50 MHz Current Probe User's Guide specification table. Infiniium vs InfiniiVision peak-current footnotes differ when two probes share a mainframe; use the host-scope table.



MODEL

**Agilent / Keysight
1147A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1147A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 1147A is a 50 MHz active current probe for DC and AC current measurements up to 15 A. It combines Hall Effect sensing for DC and current transformer technology for AC, eliminating the need for electrical circuit connection. The split-core design accommodates conductors up to 5 mm diameter, enabling quick attachment and removal without circuit interruption. Technical Specifications Bandwidth: DC to 50 MHz (–3 dB) Rise Time: 7 ns or less Continuous Current: 10 Arms DC Current: 15 ADC Peak Current (AC + DC): 15 A peak Peak

Current (Non-continuous): 30 A, 45 A, 50 A peak at pulse width $\leq 10 \mu\text{s}$ DC Accuracy: $\pm 1\%$ of reading $\pm 1 \text{ mV}$ AC Accuracy (45–66 Hz): $\pm 1.0\%$ reading $\pm 1 \text{ mV}$ Noise: 2.5 mArms or less Output Voltage Rate: 0.1 V/A Power Supply: $\pm 12 \text{ Vdc} \pm 1 \text{ V}$ Temperature Coefficient: $\pm 2\%$ or less (0°C to 40°C) External Magnetic Field Effect: Maximum 20 mA (DC to 60 Hz, 400 A/m field) Sensor Cable Length: 1.5 m Power Cable Length: 1 m Probe Dimensions: 175 mm $\times$ 18 mm $\times$ 40 mm

Key Features

Zero adjustment dial for offset and temperature drift correction Demagnetizing switch removes residual magnetism AutoProbe interface enables automatic oscilloscope configuration Snap-on BNC output connector Low circuit insertion loss Operating temperature: $23^\circ\text{C} \pm 3^\circ\text{C}$, minimum 30 minutes after power-on

Typical Applications Motor controllers, switching power supplies, inverters, and transient current signal capture in high-frequency switching environments.

Compatibility & Integration AutoProbe-compatible with Agilent/Keysight 54800, 5000, 6000, 7000, 8000, and 9000 Series oscilloscopes (except 6000 Series 100 MHz models). For 80000/90000 Series use, N2779A power supply and E2697A high impedance adapter required.

1147A Characteristics / Specifications

PARAMETER	VALUE
Model	1147A
Instrument Type	AC/DC current probe
Bandwidth	dc to 50 MHz minus 3 dB
Rise Time	7 ns or less
Rated Current	15 A peak (AC plus DC)
Continuous Rms	10 Arms
Maximum Peak Pulse	50 A for pulse widths 10 us or less
Probe Sensitivity	0.1 V/A
Amplitude Accuracy	plus or minus 1 percent of reading plus 1 mV (DC or 45 to 66 Hz)
Noise	about 2.5 mArms with 20 MHz bandwidth limiting
Temperature Coefficient	about plus or minus 2 percent (0 C to 40 C)
External Field Effect	equivalent to about 20 mA in 400 A/m DC to 60 Hz
Maximum Circuit Voltage	300 V CATIMeasurable Conductor Diameter: 5 mm
Sensor Cable Length	approximately 1.5 m
Probe Interface	AutoProbe 1 Mohm
Maximum Rated Power	3 VA with rated current
Reference Temperature	23 C plus or minus 3 C
Successor	1147B
Bnc Sibling	N2774A same 50 MHz probe with standard BNC
Manufacturer	HP Agilent Keysight
Mechanical Package	split core current probe

1147A Specifications

PARAMETER	VALUE
Agilent 1147A 50 MHz AC/DC Current Probe	Overview
AutoProbe interface power	15 A continuous 50 A peak
Technical Specifications	Model: 1147A

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 Agilent 1147A 50 MHz Current Probe User's Guide specification table. Infiniium vs InfiniiVision peak-current footnotes differ when two probes share a mainframe; use the host-scope table.

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.