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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 1146B

Agilent Keysight 1146B AC/DC Current Probe 100 kHz 100 A The Keysight 1146B is the current 100 kHz / 100 A Hall-effect probe replacing 1146A. OEM Infiniium probes data sheet lists DC to 100 kHz (minus 3 dB), 100 mV/A (100 mA to 10 A peak) and 10 mV/A (1 to 100 A peak), 3 percent / 4 percent / 15 percent accuracy bands, 9 V alkaline battery, and 600 Vrms CAT II / 300 Vrms CAT III working voltage. Non-invasive AC/DC current on any 1 Mohm oscilloscope. Current Range 100 Mv Per A: 100 mA to 10 A peak The Keysight 1146B is the current 100 kHz / 100 A Hall-effect probe replacing 1146A. OEM Infiniium probes data sheet lists DC to 100 kHz (minus 3 dB), 100 mV/A (100 mA to 10 A peak) and 10 mV/A (1 to 100 A peak), 3 percent / 4 percent / 15 percent accuracy bands, 9 V alkaline battery, and 600 Vrms CAT II / 300 Vrms CAT III working voltage. Non-invasive AC/DC current on any 1 Mohm oscilloscope. Current Range 100 Mv Per A: 100 mA to 10 A peak Current Range 10 Mv Per A: 1 A to 100 A peak



MODEL

**Agilent / Keysight
1146B**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1146B

LISTING

<https://aumictechlabs.com/products/1146b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 1146B is a Hall-effect current probe designed for non-invasive AC and DC current measurement across industrial and laboratory environments. It captures transient signals without circuit interruption, delivering accurate readings from 100 mA to 100 A across a DC to 100 kHz bandwidth. The probe operates at working voltages up to 600 V and integrates with standard oscilloscopes via BNC connector, making it essential for characterizing motor controllers, switching power supplies, inverters,

and current amplifiers driving inductive loads. The 1146B successor to the discontinued 1146A maintains identical form, fit, and functionality while delivering proven measurement performance. A 9 V alkaline battery powers the unit, with status indicated by battery level and overload indicators. The light gray Lexan housing (UL 94 V2) houses a 231 × 36 × 67 mm form factor with a 2 m insulated coaxial output cable terminated in an insulated BNC connector.

Technical Specifications

Electrical Performance

Frequency range: DC to 100 kHz (–3 dB with current de-rating) **Maximum current:** 100 A DC or 100 A peak AC (100 A RMS) **Minimum current:** 100 mA **Working voltage:** 600 V maximum **Safety rating:** 600 V Category III (Pollution degree 2); 300 V Category IV (Pollution degree 2) **Measurement Accuracy** At 100 mV/A: ±3% of reading for 50 mV to 10 A peak (≥50 mA) At 10 mV/A: ±4% of reading for 500 mA to 40 A peak (≥50 mA) At 10 mV/A: ±15% maximum at 100 A peak

Key Features

- Hall-effect sensor technology for simultaneous AC and DC measurement
- Non-contact measurement eliminates circuit breaking
- Battery level indicator and overload indicator
- 9 V alkaline battery powered
- Rated for demanding transient analysis applications

Typical Applications

- Motor controller characterization
- Switching power supply analysis
- Inverter current profiling
- Current amplifier load assessment

Compatibility & Integration

Compatible with any oscilloscope featuring 0.2 to 0.5 V/div sensitivity and 1 MΩ BNC input impedance. High-impedance adapters (E2697A for 80000/90000 Series or N5449A for 90000X/Q Series) enable integration with 50 Ω Infiniium instruments. Suitable for use with digital multimeters and data acquisition systems.

1146B Characteristics / Specifications

PARAMETER	VALUE
Model	1146B
Instrument Type	AC/DC current probe
Bandwidth	dc to 100 kHz minus 3 dB
Current Range 100 Mv Per A	100 mA to 10 A peak
Current Range 10 Mv Per A	1 A to 100 A peak
Output Signal Maximum	1000 mV peak
Accuracy 100 Mv Per A	3 percent of reading plus or minus 50 mA (50 mA to 10 A peak)
Accuracy 10 Mv PerAMid	4 percent of reading plus or minus 50 mA (500 mA to 40 A peak)
Accuracy 10 Mv PerAHigh	15 percent max at 100 A (40 A to 100 A peak)
Noise 10 Mv Per A	480 μ V
Noise 100 Mv Per A	3 mV
Insertion Impedance	0.01 ohm at 50/60 Hz
Maximum Working Voltage	600 Vrms CAT II or 300 Vrms CAT III
Maximum Common Mode Voltage	600 Vrms CAT II or 300 Vrms CAT III
Adjacent Conductor Influence	less than 0.2 mA/A AC
Conductor Position Influence	0.5 percent of reading at 1 kHz in jaw
Battery	9 V alkaline NEDA 1604A IEC 6LR61
Low Battery Threshold	green LED on when less than or equal to 6.5 V
Battery Life	55 hours typical
Cable Length	2 m coaxial with insulated BNC
Reference Temperature	23 C plus or minus 5 C
Predecessor	1146A
Manufacturer	HP Agilent Keysight

1146B Specifications

PARAMETER	VALUE
Agilent Keysight 1146B AC/DC Current Probe 100 kHz 100 A	Overview
Applications	Non-invasive AC/DC current on any 1 Mohm oscilloscope.
Battery level and overload indicators	100 mA to 100 A rms DC to 100 kHz
Works with any 1 Mohm input scope	Replaces 1146A
Technical Specifications	Model: 1146B

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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Predecessor	1146A
Manufacturer	HP Agilent Keysight
Notes	
From Keysight Infiniium Oscilloscope Probes and Accessories data sheet 1146B operating-characteristics table. Specified rows are those marked as specified performance at the published reference conditions.	

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.