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August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 1146A

HP Agilent 1146A AC/DC Current Probe 100 kHz 100 A The HP/Agilent 1146A isaHall-effect AC/DC current probe. OEM 1146A user's guide 01146-92003 lists DC to 100 kHz bandwidth (minus 3 dB with derating), 100 mV/A (0 to 10 A peak) and 10 mV/A (0 to 100 A peak) ranges, 9 V alkaline battery, and 600 Vac RMS CAT II / 300 Vac RMS CAT III maximum floating voltage. Non-invasive current waveforms on industrial, automotive, and power circuits with any 1 Mohm BNC oscilloscope. 100 mA to 100 A rms without breaking the circuit The HP/Agilent 1146A isaHall-effect AC/DC current probe. OEM 1146A user's guide 01146-92003 lists DC to 100 kHz bandwidth (minus 3 dB with derating), 100 mV/A (0 to 10 A peak) and 10 mV/A (0 to 100 A peak) ranges, 9 V alkaline battery, and 600 Vac RMS CAT II / 300 Vac RMS CAT III maximum floating voltage. Non-invasive current waveforms on industrial, automotive, and power circuits with any 1 Mohm BNC oscilloscope. 100 mA to 100 A rms without breaking the circuit Two sensitivity ranges 100 mV/A and 10 mV/A



MODEL

**Agilent / Keysight  
1146A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**1146A**

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight 1146A is an AC/DC current probe that measures current from 100 mA to 100 A rms without breaking the circuit. Based on Hall-effect technology, it delivers accurate AC and DC measurements across a DC to 100 kHz bandwidth and withstands up to 600 Vrms CAT II. The probe offers two sensitivity ranges - 100 mV/A for 100 mA to 10 A peak and 10 mV/A for 1 A to 100

A peak - with AC accuracy of  $\pm 3\%$  to  $\pm 4\%$  of reading above 50 mA, and  $\pm 15\%$  maximum at 100 A peak. Technical Specifications Current Range: 100 mV/A setting measures 100 mA to 10 A peak; 10 mV/A setting measures 1 A to 100 A peak; minimum measurable current 100 mA Bandwidth: DC to 100 kHz at -3 dB with current derating AC Accuracy:  $\pm 3\%$  of reading  $\geq 50$  mA (100 mV/A range);  $\pm 4\%$  of reading  $\geq 50$  mA (10 mV/A, 500 mA to 40 A);  $\pm 15\%$  maximum at 100 A peak Working Voltage: 600 Vrms CAT II maximum Floating Voltage: 600 Vrms CAT II maximum Phase Shift:  $< 1.5^\circ$  (DC to 65 Hz) Noise: 480  $\mu$ V Rise/Fall Time: 3  $\mu$ s Insertion Impedance: 0.01  $\Omega$  at 50/60 Hz Influence of Adjacent Conductor:  $< 0.2$  mA/A AC Battery Life: 55 hours typical (9V alkaline, 8.6 mA consumption) Key Features Hall-effect sensor technology for simultaneous AC and DC measurement Dual sensitivity ranges eliminate range switching for most applications Overload (OL) and low battery indication via LED 2 m insulated coaxial cable with insulated BNC connector Compact design: 231 mm  $\times$  36 mm  $\times$  67 mm; 330 g with battery Maximum conductor diameter: 11.8 mm IP20 protection; rated for 1.0 m drop test on 38 mm oak over concrete Operating temperature 0°C to 50°C; storage -30°C to 80°C Typical Applications Power supply and battery charger testing Motor and variable frequency drive analysis Load profiling and consumption monitoring Fault current detection in distribution systems Compatibility & Integration Connects directly to oscilloscopes with BNC input and  $\geq 1$  M $\Omega$  input impedance. Compatible with Agilent/Keysight 1000, 3000, 5000, 6000, 7000, 8000, 9000, 80000 (requires E2697A), and 90000 series (requires E2697A).

## 1146A Characteristics / Specifications

| PARAMETER                     | VALUE                                                                     |
|-------------------------------|---------------------------------------------------------------------------|
| Model                         | 1146A                                                                     |
| Instrument Type               | AC/DC current probe                                                       |
| Bandwidth                     | dc to 100 kHz minus 3 dB with derating                                    |
| Current Range 100 Mv Per A    | 0 A to 10 A dc or peak ac                                                 |
| Current Range 10 Mv Per A     | 0 A to 100 A dc or peak ac                                                |
| Accuracy 100 Mv Per A         | less than plus or minus 3 percent of reading plus 50 mA (50 mA to 10 A)   |
| Accuracy 10 Mv Per A To 40 A  | less than plus or minus 4 percent of reading plus 50 mA (50 mA to 40 A)   |
| Accuracy 10 Mv Per A To 100 A | less than plus or minus 15 percent of reading plus 100 mA (40 A to 100 A) |
| Phase Shift 100 Mv Per A      | less than 1.5 degrees dc to 65 Hz                                         |
| Phase Shift 10 Mv Per A       | less than 1.0 degree dc to 65 Hz                                          |
| Noise 100 Mv Per A            | 480 uV                                                                    |
| Noise 10 Mv Per A             | 3 mV                                                                      |
| Insertion Impedance           | 0.01 ohm at 50/60 Hz                                                      |
| Rise Fall Time 100 Mv Per A   | 3 us                                                                      |
| Rise Fall Time 10 Mv Per A    | 4 us                                                                      |
| Maximum Floating Voltage      | 600 Vac RMS CAT II or 300 Vac RMS CAT III                                 |
| Battery                       | 9 V alkaline                                                              |
| Cable Length                  | 2 m coaxial with insulated BNC                                            |
| Scope Requirement             | BNC, 1 Mohm minimum, 0.2 to 0.5 V/div                                     |
| Reference Temperature         | 23 C plus or minus 5 C                                                    |
| Successor                     | 1146B                                                                     |
| Manufacturer                  | HP Agilent Keysight                                                       |

# 1146A Specifications

| PARAMETER                                             | VALUE                                                                                                          |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| HP Agilent 1146A AC/DC Current Probe<br>100 kHz 100 A | Overview                                                                                                       |
| Applications                                          | Non-invasive current waveforms on industrial, automotive, and power circuits with any 1 Mohm BNC oscilloscope. |
| Two sensitivity ranges 100 mV/A and 10 mV/A           | 2 m insulated BNC cable                                                                                        |
| Technical Specifications                              | Model: 1146A                                                                                                   |

# 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              |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Specifications              |                                                                         |
| PARAMETER                   | VALUE                                                                   |
| Phase Shift 100 Mv Per A    | less than 1.5 degrees dc to 65 Hz                                       |
| Phase Shift 10 Mv Per A     | less than 1.0 degree dc to 65 Hz                                        |
| Noise 100 Mv Per A          | 480 uV                                                                  |
| Noise 10 Mv Per A           | 3 mV                                                                    |
| Insertion Impedance         | 0.01 ohm at 50/60 Hz                                                    |
| Rise Fall Time 100 Mv Per A | 3 us                                                                    |
| Rise Fall Time 10 Mv Per A  | 4 us                                                                    |
| Maximum Floating Voltage    | 600 Vac RMS CAT II or 300 Vac RMS CAT III                               |
| Battery                     | 9 V alkaline                                                            |
| Cable Length                | 2 m coaxial with insulated BNC                                          |
| Scope Requirement           | BNC, 1 Mohm minimum, 0.2 to 0.5 V/div                                   |
| Reference Temperature       | 23 C plus or minus 5 C                                                  |
| Successor                   | 1146B                                                                   |
| Manufacturer                | HP Agilent Keysight                                                     |
| Technical Specifications    |                                                                         |
| PARAMETER                   | VALUE                                                                   |
| Model                       | 1146A                                                                   |
| Instrument Type             | AC/DC current probe                                                     |
| Bandwidth                   | dc to 100 kHz minus 3 dB with derating                                  |
| Current Range 100 Mv Per A  | 0 A to 10 A dc or peak ac                                               |
| Current Range 10 Mv Per A   | 0 A to 100 A dc or peak ac                                              |
| Accuracy 100 Mv Per A       | less than plus or minus 3 percent of reading plus 50 mA (50 mA to 10 A) |
| Specifications              |                                                                         |

| PARAMETER                     | VALUE                                                                     |
|-------------------------------|---------------------------------------------------------------------------|
| Model                         | 1146A                                                                     |
| Instrument Type               | AC/DC current probe                                                       |
| Bandwidth                     | dc to 100 kHz minus 3 dB with derating                                    |
| Current Range 100 Mv Per A    | 0 A to 10 A dc or peak ac                                                 |
| Current Range 10 Mv Per A     | 0 A to 100 A dc or peak ac                                                |
| Accuracy 100 Mv Per A         | less than plus or minus 3 percent of reading plus 50 mA (50 mA to 10 A)   |
| Accuracy 10 Mv Per A To 40 A  | less than plus or minus 4 percent of reading plus 50 mA (50 mA to 40 A)   |
| Accuracy 10 Mv Per A To 100 A | less than plus or minus 15 percent of reading plus 100 mA (40 A to 100 A) |
| Phase Shift 100 Mv Per A      | less than 1.5 degrees dc to 65 Hz                                         |
| Phase Shift 10 Mv Per A       | less than 1.0 degree dc to 65 Hz                                          |
| Noise 100 Mv Per A            | 480 uV                                                                    |
| Noise 10 Mv Per A             | 3 mV                                                                      |
| Insertion Impedance           | 0.01 ohm at 50/60 Hz                                                      |
| Rise Fall Time 100 Mv Per A   | 3 us                                                                      |
| Rise Fall Time 10 Mv Per A    | 4 us                                                                      |
| Maximum Floating Voltage      | 600 Vac RMS CAT II or 300 Vac RMS CAT III                                 |
| Battery                       | 9 V alkaline                                                              |
| Cable Length                  | 2 m coaxial with insulated BNC                                            |
| Scope Requirement             | BNC, 1 Mohm minimum, 0.2 to 0.5 V/div                                     |
| Reference Temperature         | 23 C plus or minus 5 C                                                    |
| Successor                     | 1146B                                                                     |
| Manufacturer                  | HP Agilent Keysight                                                       |

#### Notes

From Keysight 1146A AC/DC Oscilloscope Current Probe User's Guide 01146-92003 specification tables. Accuracy rows assume probe zeroed, 1 minute warm-up, battery 9 V plus or minus 0.1 V.

### Available from Aumictech

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

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

#### Aumictech

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NAICS 423690 · 811210 · 541380  
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.