

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

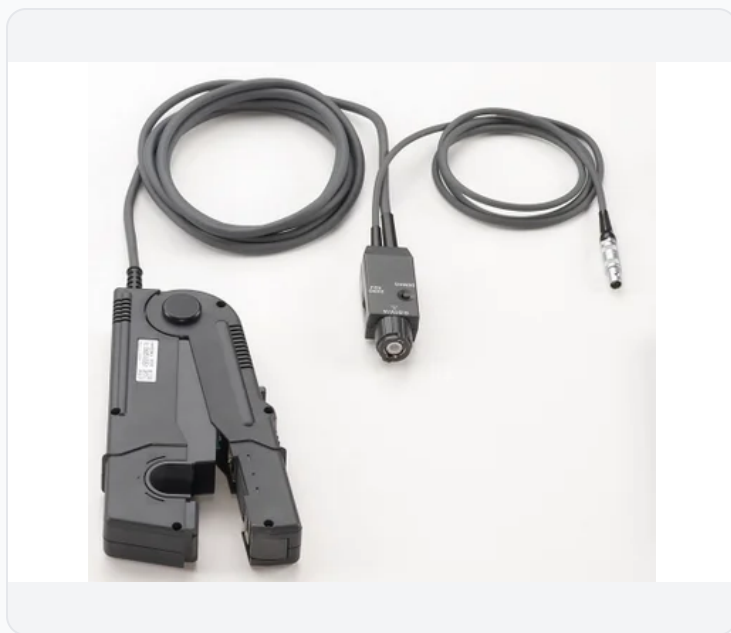
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2781B

Keysight Agilent N2781B AC/DC Current Probe 10 MHz 150 A The Keysight (Agilent) N2781B is a hybrid Hall-effect/AC-transformer clamp current probe in the N2780B series. OEM N2780B Series datasheet 5989-6432EN rates DC to 10 MHz bandwidth, 150 Arms continuous / 300 A peak, 0.01 V/A output, plus or minus 1.0 percent reading amplitude accuracy, and external N2779A power supply operation. Oscilloscope current measurements on motor drives, switching supplies, inverters, and power electronics without breaking the conductor. The Keysight (Agilent) N2781B is a hybrid Hall-effect/AC-transformer clamp current probe in the N2780B series. OEM N2780B Series datasheet 5989-6432EN rates DC to 10 MHz bandwidth, 150 Arms continuous / 300 A peak, 0.01 V/A output, plus or minus 1.0 percent reading amplitude accuracy, and external N2779A power supply operation. Oscilloscope current measurements on motor drives, switching supplies, inverters, and power electronics without breaking the conductor. Hybrid Hall-effect and AC current transformer sensing



MODEL

**Agilent / Keysight
N2781B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2781B

LISTING

<https://aumictechlabs.com/products/n2781b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2781B is a hybrid AC/DC current probe engineered for precision current measurements across power supplies, motor drives, and electronic circuit characterization. Combining Hall-effect and AC current transformer technology, it delivers accurate measurements from 20 mA to 150 Arms continuous, with pulse capability to 300 A. The probe spans DC to 10

MHz bandwidth with 35 ns rise time, enabling capture of both steady-state and transient events. A split-core design allows non-invasive clamping onto conductors up to 20 mm diameter without circuit interruption. Output sensitivity is 10 mV/A, and amplitude accuracy reaches $\pm 1.0\%$ of reading ± 100 mA. Built-in demagnetize and zero adjustment functions correct residual magnetism and temperature drift, while overload protection safeguards against excessive current. The 2 m cable terminates in a high-impedance BNC connector rated CAT II 600 V, with maximum power dissipation of 5.5 VA at rated current.

Technical Specifications

Bandwidth:	DC to 10 MHz
Maximum Continuous Current:	150 Arms
Maximum Pulse Current:	300 A
Minimum Measurable Current:	20 mA
Amplitude Accuracy:	$\pm 1.0\%$ of reading ± 100 mA
Rise Time:	35 ns or less
Output Voltage:	10 mV/A (100:1)
Maximum Rated Voltage:	600 V CAT II
Maximum Rated Power:	5.5 VA
Conductor Diameter:	20 mm
Output Impedance:	7 Ω
Cable Length:	2 m

Key Features

- Hybrid Hall-effect and AC current transformer technology
- Split-core construction for non-invasive clamp-on attachment
- Low noise and insertion loss with high signal-to-noise ratio
- Demagnetize function removes residual core magnetism
- Zero adjustment compensates for voltage offset and temperature drift
- Built-in overload protection
- AC/DC input coupling

Typical Applications

- Power supply characterization
- Motor drive analysis
- Transient current event capture
- Low-current precision measurement
- Fast-switching circuit diagnostics

Compatibility & Integration

Connects to any oscilloscope with 1 M Ω high-impedance BNC input, including Keysight InfiniiVision and Infiniium series. For 50 Ω oscilloscopes, use the E2697A adapter or N5449A high-impedance probe adapter. Requires external Keysight N2779A 3-channel power supply; up to three N278xB probes operate from a single supply unit.

N2781B Characteristics / Specifications

PARAMETER	VALUE
Model	N2781B
Series	N2780B
Instrument Type	AC/DC current probe
Bandwidth Minus 3 Db	DC to 10 MHz
Risetime	35 ns or less
Maximum Continuous Current Rms	150 A
Maximum Peak Current Non Continuous	300 A peak
Lowest Measurable Current	20 mA at plus or minus 3 percent accuracy DC with scope 1 mV/div high-resolution mode
Output Voltage Rate	0.01 V/A (100:1)
Amplitude Accuracy	plus or minus 1.0 percent of reading plus or minus 100 mA at DC and 45 to 66 Hz rated current
Noise	equivalent to 25 mArms or less with 20 MHz bandwidth limit on scope
Temperature Coefficient For Sensitivity	plus or minus 2 percent or less from 0 to 40 C
External Magnetic Field Effect	equivalent to maximum 150 mA in DC to 60 Hz 400 A/m field
Maximum Rated Power	5.5 VA with rated current
Rated Supply Voltage	DC plus or minus 12 V plus or minus 1 V
Measurable Conductor Diameter	20 mm (0.79 inch)
Scope Input Requirement	1 MOhm BNC
Amplitude Accuracy Temperature	guaranteed at 23 plus or minus 3 C
Power Supply Model	N2779A
N2779A Output	DC 12 V 2.5 A
N2779A Maximum Rated Power	170 VA
N2779A Input	AC 100-240 Vac 50/60 Hz
N2779A Channels	3 probe connectors
Bandwidth	Minus 3 Db: DC to 10 MHz

N2781B Specifications

PARAMETER	VALUE
Keysight Agilent N2781B AC/DC Current Probe 10 MHz 150 A	Overview
Overload protect function	Requires N2779A multi-channel probe power supply
Technical Specifications	Model: N2781B

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
Model	N2781B
Series	N2780B
Instrument Type	AC/DC current probe
Bandwidth Minus 3 Db	DC to 10 MHz
Risetime	35 ns or less
Maximum Continuous Current Rms	150 A
Maximum Peak Current Non Continuous	300 A peak
Lowest Measurable Current	20 mA at plus or minus 3 percent accuracy DC with scope 1 mV/div high-resolution mode
Output Voltage Rate	0.01 V/A (100:1)
Amplitude Accuracy	plus or minus 1.0 percent of reading plus or minus 100 mA at DC and 45 to 66 Hz rated current
Noise	equivalent to 25 mArms or less with 20 MHz bandwidth limit on scope
Temperature Coefficient For Sensitivity	plus or minus 2 percent or less from 0 to 40 C
External Magnetic Field Effect	equivalent to maximum 150 mA in DC to 60 Hz 400 A/m field
Maximum Rated Power	5.5 VA with rated current
Rated Supply Voltage	DC plus or minus 12 V plus or minus 1 V
Measurable Conductor Diameter	20 mm (0.79 inch)
Scope Input Requirement	1 MOhm BNC
Amplitude Accuracy Temperature	guaranteed at 23 plus or minus 3 C
Power Supply Model	N2779A
N2779A Output	DC 12 V 2.5 A
N2779A Maximum Rated Power	170 VA
N2779A Input	AC 100-240 Vac 50/60 Hz
N2779A Channels	3 probe connectors

Notes

From Keysight N2780B Series AC/DC Current Probes datasheet 5989-6432EN column for N2781B and N2779A power-supply table. Conductor must be insulated per OEM note.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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.