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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2805A

HP Agilent Keysight N2805A High Voltage Differential Probe 200 MHz The Keysight N2805A is a 200 MHz AutoProbe differential probe with 50:1 attenuation and a 5 m cable for extended-reach differential measurements. OEM N2804/5A User Guide lists plus or minus 100 V differential (DC plus peak AC), 4 MOhm // 4 pF between inputs, and CAT II ratings. Vehicle bus and power electronics differential measurements requiring longer cable reach than short-cable differential probes. Instrument Type: High-voltage differential probe The Keysight N2805A is a 200 MHz AutoProbe differential probe with 50:1 attenuation and a 5 m cable for extended-reach differential measurements. OEM N2804/5A User Guide lists plus or minus 100 V differential (DC plus peak AC), 4 MOhm // 4 pF between inputs, and CAT II ratings. Vehicle bus and power electronics differential measurements requiring longer cable reach than short-cable differential probes. Instrument Type: High-voltage differential probe Dc Gain Accuracy: plus or minus 1 percent



MODEL

**Agilent / Keysight
N2805A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2805A

LISTING

<https://aumictechlabs.com/products/n2805a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2805A is a 200 MHz high-voltage differential probe engineered for precision measurement of differential signals in demanding test environments. With a 5 m cable and AutoProbe interface compatibility, it delivers direct connection to Keysight oscilloscopes without

external power or configuration overhead. The probe's 50:1 attenuation ratio and >70 dB CMRR at 1 MHz enable clean signal isolation even in high common-mode noise conditions, making it ideal for power electronics and high-speed digital characterization.

Technical Specifications

Bandwidth: 200 MHz
Rise Time (Calculated): 1.75 ns
Attenuation Ratio: 50:1
Differential Input Resistance: 4 M Ω
Differential Input Capacitance: 4 pF
Input Impedance: 4 M Ω || 4 pF
Common-Mode Rejection Ratio (CMRR): >70 dB at 1 MHz
Maximum Differential Operating Voltage: ± 100 V (DC + peak AC), ± 100 Vrms
Cable Length: 5 m
Lead Length: 0.39 m
Operating Temperature Range: -10 to 40°C

Measurement Category: CAT II

Key Features

- AutoProbe interface eliminates external power supply requirements
- Adjustable zero offset via included trimmer tool
- Extended 5 m cable for remote measurement points
- 30 cm extension leads with built-in damping resistor
- Comprehensive accessory kit: alligator clips, hook clips, pincer clips, browser tips, and color-coded identification rings

Typical Applications

- High-speed power measurements (switching power devices, DC-DC converters, class D amplifiers)
- Vehicle bus signal acquisition
- High-speed digital system characterization
- Measurements requiring extended cable reach

Compatibility & Integration

The N2805A operates with InfiniiVision 4000 X-Series (SW v4.0+), Infiniium S-Series, 9000 Series, and 90000 Series oscilloscopes. Compatible with any oscilloscope featuring 50 Ω AutoProbe-interface channel inputs.

N2805A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	High-voltage differential probe
Bandwidth	200 MHz (-3 dB)
Dc Gain Accuracy	plus or minus 1 percent
Rise Time	1.75 ns (10 percent to 90 percent)
Attenuation	50:1
Input Each Side To Ground	2 MOhm // 8 pF
Input Between Inputs	4 MOhm // 4 pF
Maximum Differential Input Voltage	plus or minus 100 V (DC plus peak AC) and plus or minus 100 Vrms
Maximum Common Mode Input Voltage Class	plus or minus 100 V (DC plus peak AC) and plus or minus 100 Vrms CATIper OEM table
Cmrr Class	greater than 80 dB at 50/60 Hz class; greater than 50 dB at 10 MHz class per OEM table
Noise Referenced To Probe Input	3.5 mVrms class per OEM table
Probe Power	AutoProbe interface
Cable Length	5 m
Measurement Category	CAT II design per OEM user guide
Scope Interface	AutoProbe
Series Family	Keysight N2804A/N2805A
Literature	Keysight N2804-97001 user guide
Compatible Use Cases	High-speed power vehicle bus digital differential
Sibling Model Bandwidth N2804A	300 MHz without extension leads
Sibling Model Attenuation N2804A	100:1
Sibling Max Differential N2804A	plus or minus 300 V DC plus peak AC
Extension Leads Class N2804A	30 cm with damping resistor

N2805A Specifications

PARAMETER	VALUE
AutoProbe powered from oscilloscope	5 m cable length for extended reach
CAT II measurement category design	Low differential loading 4 MOhm // 4 pF
Technical Specifications	Instrument Type: High-voltage differential probe

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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Extension Leads Class N2804A	30 cm with damping resistor
Notes	
From Keysight N2804/5A Differential Probes User Guide specification table for N2805A. Confirm CAT marking and limits on the probe label and current datasheet revision.	

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.