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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2871A

Agilent Keysight N2871A Passive Probe 200 MHz 10:1 The Keysight N2871A is a 200 MHz 10:1 passive probe with 10 MOhm input resistance and 9.5 pF input capacitance. OEM N2870A Series data sheet 5990-3930EN and N2870A-Series/N2894A user's guide list 400 V mains-isolated / 300 V CAT II maximum input, 10-25 pF scope compensation, 48 g probe mass, and 1.3 m cable with a 2.5 mm ground sleeve. General-purpose probing of densely populated SMT on 1 MOhm oscilloscopes with bandwidth less than 200 MHz. Automatic probe recognition on Keysight scopes The Keysight N2871A is a 200 MHz 10:1 passive probe with 10 MOhm input resistance and 9.5 pF input capacitance. OEM N2870A Series data sheet 5990-3930EN and N2870A-Series/N2894A user's guide list 400 V mains-isolated / 300 V CAT II maximum input, 10-25 pF scope compensation, 48 g probe mass, and 1.3 m cable with a 2.5 mm ground sleeve. General-purpose probing of densely populated SMT on 1 MOhm oscilloscopes with bandwidth less than 200 MHz. Automatic probe recognition on Keysight scopes Input Resistance: 10 MOhm (scope plus probe, 1 MOhm termination)



MODEL

**Agilent / Keysight
N2871A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2871A

LISTING

<https://aumictechlabs.com/products/n2871a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2871A is a 10:1 passive probe engineered for general-purpose measurements on oscilloscopes with 1 MΩ inputs. Delivering 200 MHz bandwidth with minimal circuit loading, it combines a 10 MΩ input resistance and 9.5 pF input capacitance to preserve signal integrity

during probing. The compact 2.5 mm probe head enables access to densely populated IC components, while interchangeable tip options - rigid and spring-loaded variants - accommodate various measurement scenarios. A complete accessory kit including IC caps (0.5 mm to 1.27 mm pitch), ground blade with copper pads, and 15 cm ground lead addresses both standard and specialized probing needs.

Technical Specifications
Bandwidth: DC to 200 MHz
Attenuation Ratio: 10:1
Input Resistance: 10 M Ω (terminated into 1 M Ω scope input)
Input Capacitance: 9.5 pF
Maximum Input Voltage: 400 V CAT I / 300 V CAT II
Scope Compensation Range: 10–25 pF
Cable Length: 1.3 m
Probe Head Diameter: 2.5 mm

Key Features
Spring-loaded probe tips for reliable contact without slipping
Insulating IC caps with self-aligning design for fine-pitch IC leads
Standard flat blade ground connector with self-adhesive copper pads to reduce ground inductance
LF compensation adjustment to match probe cable capacitance with oscilloscope input capacitance
Rigid and spring-loaded probe tips included
Probe identification marking

Typical Applications
The N2871A suits general-purpose circuit debugging and signal verification on oscilloscopes with bandwidths below 200 MHz. Its low-loading characteristics and compact head make it ideal for high-density PCB and IC testing.

Compatibility & Integration
Fully compatible with Keysight InfiniiVision and Infiniium Series oscilloscopes featuring 1 M Ω input impedance. Connects via BNC. Part of the N2870A Series probe family.

N2871A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Passive probe
Series Family	Keysight N2870A Series
Bandwidth	200 MHz (minus 3 dB)
Attenuation Ratio	10:1
Input Capacitance	9.5 pF
Input Resistance	10 MOhm (scope plus probe, 1 MOhm termination)
Max Input Voltage	400 V mains isolated; 300 V CAT II
Scope Compensation Range	10 to 25 pF
Scope Input Required	1 MOhm
Cable Length	1.3 m
Probe Mass	48 g (probe only)
Ground Sleeve Diameter	2.5 mm
Operating Temperature	0 C to plus 50 C
Storage Temperature	minus 40 C to plus 70 C
Operating Altitude	2000 m (6561 ft)
Nonoperating Altitude	15000 m (49212 ft)
Operating Humidity	80 percent RH up to 31 C, decreasing linearly to 40 percent at 50 C
Pollution Degree	2
Probe Recognition	Automatic on Keysight InfiniiVision and Infiniium
Deluxe Accessory Kit	N2877A
Fine Pitch Accessory Kit	N2879A
User Guide Literature	N2876-97003
Literature	Keysight 5990-3930EN
Recommended Scope Bandwidth	less than 200 MHz
Attenuation	Ratio: 10:1

PARAMETER	VALUE
Humidity	80 percent RH up to 31 C, decreasing linearly to 40 percent at 50 C

N2871A Specifications

PARAMETER	VALUE
Applications	General-purpose probing of densely populated SMT on 1 MOhm oscilloscopes with bandwidth less than 200 MHz.
Key Features	Compact 2.5 mm probe head
Technical Specifications	Instrument Type: Passive probe

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 70 C
Operating temperature	0 C to plus 50 C
Operating Temperature	0 C to plus 50 C
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Fine Pitch Accessory Kit	N2879A
User Guide Literature	N2876-97003
Literature	Keysight 5990-3930EN
Recommended Scope Bandwidth	less than 200 MHz Notes From Keysight N2870A Series Passive Probes and Accessories data sheet 5990-3930EN electrical and mechanical tables, N2871A row, and N2870A-Series and N2894A Passive Probes User's Guide.

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 Keysight N2870A Series Passive Probes and Accessories data sheet 5990-3930EN electrical and mechanical tables, N2871A row, and N2870A-Series and N2894A Passive Probes User's Guide.

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
NAICS 423690 · 811210 · 541380
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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.