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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2002A

Agilent Keysight N2002A Noise Source Test Set 10 MHz to 26.5 GHz The Agilent N2002A is a stand-alone noise source test set used inside an ENR calibration system. OEM technical overview 5988-7228EN lists 10 MHz to 26.5 GHz coverage, GPIB remote or manual control, and isolation between the noise source and the noise figure analyzer to reduce reflection-coefficient uncertainty. The N2002A has no internal power supply and performs no measurements by itself; Agilent recommends pairing it with an N8975A NFA (option 1D5) and an 11713A attenuator/switch unit. The Agilent N2002A is a stand-alone noise source test set used inside an ENR calibration system. OEM technical overview 5988-7228EN lists 10 MHz to 26.5 GHz coverage, GPIB remote or manual control, and isolation between the noise source and the noise figure analyzer to reduce reflection-coefficient uncertainty. The N2002A has no internal power supply and performs no measurements by itself; Agilent recommends pairing it with an N8975A NFA (option 1D5) and an 11713A attenuator/switch unit. In-house calibration of Keysight SNS and 346-series noise sources, and other manufacturers noise sources, with results traceable to a national standard.



MODEL

**Agilent / Keysight
N2002A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2002A

LISTING

<https://aumictechlabs.com/products/n2002a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N2002A Noise Source Test Set is a specialized calibration instrument designed to minimize uncertainty in noise figure measurements by accurately characterizing noise sources under test. Operating across 10 MHz to 26.5 GHz, this stand-alone module delivers fast, repeatable calibrations with results traceable to national standards, enabling tighter DUT specifications and increased measurement confidence.

Technical Specifications

Frequency Range: 10 MHz to 26.5 GHz

Control Interface: Manual or remote operation via GPIB

Calibration Traceability: National standards

System Integration: Operates with Agilent 11713A Attenuator/Switch Driver

Operating Environment: Indoor use only

Key Features

- Isolation between noise source under test and measurement equipment, critical for repeatability
- Automated ENR (Excess Noise Ratio) and reflection coefficient measurements via dedicated software
- Supports manual and remote GPIB control for flexible operation
- Reduces measurement uncertainty through precision calibration methodology
- In-house calibration capability eliminates external laboratory dependencies

Typical Applications

- Calibration of Agilent SNS and 346 series noise sources
- Third-party noise source calibration across operating frequency range
- Noise figure measurement validation and uncertainty reduction
- Laboratory-based ENR testing and characterization

Compatibility & Integration

The N2002A integrates with the Agilent 11713A Attenuator/Switch Driver for instrument control. Dedicated software automates complex ENR and reflection coefficient measurements. High-quality, precision-grade cables and adapters specified for the 10 MHz–26.5 GHz range and maintained in good condition are required for optimal performance. The test set accommodates noise sources from multiple manufacturers operating within its frequency range. Note: This product is obsolete with no identified direct replacement.

N2002A Characteristics / Specifications

PARAMETER	VALUE
Model	N2002A
Instrument Type	Noise source test set
Frequency Range	10 MHz to 26.5 GHz
Minimum Frequency	10 MHz
Maximum Frequency	26.5 GHz
Remote Interface	GPIB
Local Control	manual front-panel operation
Compatible Noise Sources	Keysight SNS N4000A N4001A N4002A and 346A 346B 346C plus other manufacturers
Recommended Analyzer	N8975A NFA 10 MHz to 26.5 GHz with high stability reference 1D5
Recommended Switch Unit	11713A attenuator/switch unit
Internal Power Supply	none; N2002A has no power supply and performs no measurements
Function	isolation between noise source and NFA to minimize reflection coefficient
Form Factor	stand-alone instrument used inside a calibration system
Accessory Cable	11500E included with accessory kit 001
Adapter Three Five Mm	1250-1749 3.5 mm female to female, quantity 3, with accessory kit 001
Adapter Type N	1250-1745 3.5 mm female to type-N female with accessory kit 001
Connector Class	3.5 mm and type-N noise sources
Automation Software	demonstration software in Agilent VEE Pro on accompanying CD
Manufacturer	HP Agilent Keysight
Documentation	Agilent N2002A Technical Overview 5988-7228EN
User Guide	N2002-90001
Application	in-house ENR calibration of noise sources
Traceability	results traceable to a national standard
System Requirement	must be used within a noise source calibration system

N2002A Specifications

PARAMETER	VALUE
Key Features	10 MHz to 26.5 GHz noise source test set
Manual or GPIB remote control	SNS N400x and 346A/B/C compatible
Technical Specifications	Model: N2002A

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 Agilent N2002A Noise Source Test Set Technical Overview 5988-7228EN and NFA configuration literature.
Isolation magnitude tables are not

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

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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.