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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N1425B

HP Agilent Keysight N1425B Low Noise Test Leads 3 m The Keysight N1425B provides 3 m low-noise test leads for connecting devices to B2985A/B2987A electrometer/high resistance meters through the N1413A high resistance meter fixture adapter. OEM N1424/N1425/N1427/N1428 accessories user guide and B2980B datasheet list interlock, triaxial, and BNC connections with source voltage limited to plus or minus 21 V if interlock is open. Low-noise high-resistance and electrometer measurements requiring 3 m reach from the N1413A adapter to the DUT. The Keysight N1425B provides 3 m low-noise test leads for connecting devices to B2985A/B2987A electrometer/high resistance meters through the N1413A high resistance meter fixture adapter. OEM N1424/N1425/N1427/N1428 accessories user guide and B2980B datasheet list interlock, triaxial, and BNC connections with source voltage limited to plus or minus 21 V if interlock is open. Low-noise high-resistance and electrometer measurements requiring 3 m reach from the N1413A adapter to the DUT. Interlock connection for high voltage safety

**MODEL****Agilent / Keysight
N1425B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N1425B****LISTING**<https://aumictechlabs.com/products/n1425b-2/>

NIST-traceable cal

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NAICS 423690 · 811210 · 541380

This unit

The Keysight N1425B Low Noise Test Leads are precision shielded leads engineered for high-resistance measurements on the B2980 Series femtometer/picoammeters and electrometers. Featuring 3-meter shielded cable construction, the N1425B reduces electrical noise in sensitive

measurement environments, supporting resistance values up to 100 GΩ with an integrated safety interlock for high-voltage operation. Technical Specifications Length: 3 meters Maximum Voltage: 1000 V Maximum Current: 0.5 mA Measurement Capability: High resistance up to 100 GΩ Noise Architecture: Shielded cable construction Safety: Built-in interlock circuit for high-voltage measurements Key Features The shielded cable design is critical for precision work - it actively suppresses environmental electrical noise that would otherwise corrupt measurements in the picoampere and femtoampere ranges. The interlock circuit has operator protection during high-voltage testing scenarios. The 3-meter length accommodates both bench and remote measurement setups without compromising signal integrity. Typical Applications The N1425B excels in high-resistance metrology, leakage current measurement, and electrostatic discharge (ESD) characterization. Common use cases include semiconductor device testing, insulation resistance verification, and surface leakage analysis on components requiring measurement sensitivity in the gigaohm range. Compatibility & Integration The N1425B connects directly to Keysight B2985B and B2987B electrometers via the N1413A High Resistance Meter Fixture Adapter. System flexibility is achieved through optional accessories: N1426C: Accommodates devices with large terminals N1426A: Enables small DUT testing (PC boards, IC sockets) N1426B: Supports custom test lead construction Reference the User's Guide for N1424/N1425/N1427/N1428 Accessories (available for both B2985B/B2987B and B2985A/B2987A models) and the B2980 Series data sheets for detailed integration specifications.

N1425B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Low noise test leads
Lead Length	3 m
Sibling Lead Length N1425A	1.5 m
Host Instruments	B2985A B2987A Electrometer/High Resistance Meter
Required Adapter	N1413A High Resistance Meter Fixture Adapter
Connectors Required	BNC triaxial and interlock
Interlock Open Voltage Limit	plus or minus 21 V host output limit when interlock open
Applicable Test Voltage Class	1000 V maximum
Applicable Test Current Class	0.5 mA maximum (N1425 N1426 class)
Operating Temperature	0 to 55 C
Operating Humidity	less than or equal to 70 percent RH at 40 C non-condensing
Non Operating Temperature	-40 to 70 C
Non Operating Humidity	less than or equal to 95 percent RH at 40 C non-condensing
Pin Probe Accessory	N1426A
Soldering Socket Accessory	N1426B
Alligator Clip Accessory	N1426C
Series Family	Keysight N1425 low noise test leads
Literature	Keysight N1424/N1425/N1427/N1428 accessories user guide
Host Family	Keysight B2980 Series
Lead Noise Class	Low noise test leads
Sibling Model N1425A Length	1.5 m
Fixture Adapter Required	N1413A
Humidity	less than or equal to 70 percent RH at 40 C non-condensing

N1425B Specifications

PARAMETER	VALUE
HP Agilent Keysight N1425B Low Noise Test Leads 3 m	Overview
Applications	Low-noise high-resistance and electrometer measurements requiring 3 m reach from the N1413A adapter to the DUT.
Key Features	3 m low noise lead length
Interlock connection for high voltage safety	Compatible pin probe soldering socket and alligator tip accessories N1426A/B/C
Technical Specifications	Instrument Type: Low noise test leads

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
Operating Temperature	0 to 55 C
Humidity	less than or equal to 70 percent RH at 40 C non-condensing
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Non Operating Temperature	-40 to 70 C
Non Operating Humidity	less than or equal to 95 percent RH at 40 C non-condensing
Pin Probe Accessory	N1426A
Soldering Socket Accessory	N1426B
Alligator Clip Accessory	N1426C
Series Family	Keysight N1425 low noise test leads
Literature	Keysight N1424/N1425/N1427/N1428 accessories user guide
Host Family	Keysight B2980 Series
Lead Noise Class	Low noise test leads
Sibling Model N1425A Length	1.5 m
Fixture Adapter Required	N1413A Notes From Keysight N1425A/B section of the N1424/N1425/N1427/N1428 accessories user guide and B2980B Series accessory specification table. Always verify interlock closure before applying high voltage.

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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PARAMETER	VALUE
Instrument Type	Low noise test leads
Lead Length	3 m
Sibling Lead Length N1425A	1.5 m
Host Instruments	B2985A B2987A Electrometer/High Resistance Meter
Required Adapter	N1413A High Resistance Meter Fixture Adapter
Connectors Required	BNC triaxial and interlock
Interlock Open Voltage Limit	plus or minus 21 V host output limit when interlock open
Applicable Test Voltage Class	1000 V maximum
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Pin Probe Accessory	N1426A
Soldering Socket Accessory	N1426B
Alligator Clip Accessory	N1426C
Series Family	Keysight N1425 low noise test leads
Literature	Keysight N1424/N1425/N1427/N1428 accessories user guide
Host Family	Keysight B2980 Series
Lead Noise Class	Low noise test leads
Sibling Model N1425A Length	1.5 m
Fixture Adapter Required	N1413A
Notes	
From Keysight N1425A/B section of the N1424/N1425/N1427/N1428 accessories user guide and B2980B Series accessory specification table. Always verify interlock closure before applying high voltage.	

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.