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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 42030A Four Terminal Pair Standard Resistor Set

HP / Agilent 42030A Four-Terminal Pair Standard Resistor Set The HP/Agilent/Keysight 42030A is a four-terminal-pair standard resistor set of nine precision resistors from 1 mOhm to 100 kOhm for performance tests of 4TP LCR meters and impedance analyzers. High-stability construction minimizes ambient-temperature effects. The set includes modules 42031A through 42039A, carrying case 42030-60100, and a factory calibration report. The HP/Agilent/Keysight 42030A is a four-terminal-pair standard resistor set of nine precision resistors from 1 mOhm to 100 kOhm for performance tests of 4TP LCR meters and impedance analyzers. High-stability construction minimizes ambient-temperature effects. The set includes modules 42031A through 42039A, carrying case 42030-60100, and a factory calibration report.



MODEL

**HP / Agilent
42030A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

42030A

LISTING

<https://aumictechlabs.com/products/42030a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 42030A Four Terminal Pair Standard Resistor Set is a precision calibration instrument comprising nine discrete resistor standards engineered for high stability and minimal temperature dependence. Designed specifically for four-terminal pair LCR meters and impedance analyzers, this set delivers traceable impedance verification across DC and AC conditions up to 13

MHz, supporting accurate calibration of demanding measurement equipment. Technical Specifications Resistor Standards: Nine modules spanning 1 mΩ to 100 kΩ (42031A through 42039A) DC Performance: Tolerances: ±0.1% to ±0.2% depending on module Temperature coefficient: ±10 ppm/°C to ±15 ppm/°C Yearly stability: ±100 ppm AC Calibration (DC to 13 MHz): Series resistance uncertainty: ±0.12% at 10 Ω (increasing to ±1.5% at 13 MHz) Susceptance uncertainty: ±0.02 μS to 100 kHz (100 kΩ module) Calibration parameters: series resistance, reactance, parallel resistance, susceptance Physical: Connector: BNC (4-terminal pair) Module dimensions: 94 mm H × 31 mm W × 67 mm D Module weight: 170 g; kit weight: ~3,700 g (with carrying case) Environmental: Operating temperature: 23°C ±5°C (ideal) Operating humidity: ≤70% RH Storage range: -40°C to +70°C; ≤95% RH at 40°C Key Features High-stability construction virtually unaffected by ambient temperature variations NIST-traceable calibration with factory-supplied calibration report Protective carrying case (42030-60100) for field and lab use Four-terminal pair architecture eliminates lead resistance errors Typical Applications Calibration and performance verification of precision impedance measurement instruments in metrology labs, manufacturing test environments, and field service operations. Compatibility & Integration Designed for Keysight E4980A, E4980AL, E4981A, and E4990A instruments and compatible four-terminal pair LCR meters and impedance analyzers.

Features & description

From manufacturer datasheet

Features

- Nine precision 4TP resistor modules

Applications

- Performance verification of 4TP LCR meters and impedance analyzers

42030A Characteristics / Specifications

PARAMETER	VALUE
Model	42030A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Four-Terminal Pair Standard Resistor Set
Alias	HP 42030A; Agilent 42030A; Keysight 42030A
Resistance range	1 mOhm to 100 kOhm
Module count	9 42031A: 1 mOhm +/-0.2% 42032A: 10 mOhm +/-0.2% 42033A: 100 mOhm +/-0.2% 42034A: 1 Ohm +/-0.2% 42035A: 10 Ohm +/-0.1% 42036A: 100 Ohm +/-0.1% 42037A: 1 kOhm +/-0.1% 42038A: 10 kOhm +/-0.1% 42039A: 100 kOhm +/-0.1%
Terminal connector	4-terminal pair BNC
Temperature coefficient 1 mOhm to 1 Ohm	+/-15 ppm/C
Temperature coefficient 10 Ohm to 100 kOhm	+/-10 ppm/C
Annual stability	+/-100 ppm/year
Operating temperature	23 C +/-5 C
Operating humidity	<=70% RH
Module dimensions	94 × 31 × 67 mm
Module weight	170 g each
Carrying case dimensions	400 × 120 × 290 mm
Set total weight	3700 g
Storage temperature	-40 C to +70 C
Applicable instruments	E4980A, E4980AL, E4981A, E4990A class
Included	carrying case 42030-60100 and calibration report Notes Specs from Keysight 42030A Operation and Service / user manual tables. Confirm calibration report and module serials in the case.
Humidity	<=70% RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +70 C
Operating temperature	23 C +/-5 C
Operating Temperature	23 C +/-5 C
Humidity	<=70% RH
Operating humidity	<=70% RH
Module dimensions	94 × 31 × 67 mm
Module weight	170 g each
Carrying case dimensions	400 × 120 × 290 mm
Set total weight	3700 g
Applicable instruments	E4980A, E4980AL, E4981A, E4990A class
Included	carrying case 42030-60100 and calibration report Notes Specs from Keysight 42030A Operation and Service / user manual tables. Confirm calibration report and module serials in the case.

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.

performance tests of 4TP LCR meters and impedance analyzers. High-stability construction minimizes ambient-temperature effects. The set includes modules 42031A through 42039A, carrying case 42030-60100, and a factory calibration report.

Applications

- Performance verification of 4TP LCR meters and impedance analyzers
- Resistance accuracy checks from milliohms to 100 kOhm
- Metrology and calibration laboratory reference resistors
- Direct connection to E4980A, E4980AL, E4981A, E4990A class terminals

Key Features

- Nine precision 4TP resistor modules
- Range 1 mOhm to 100 kOhm
- DC tolerance +/-0.2% low values; +/-0.1% mid/high values
- Temperature coefficient +/-15 ppm/C low; +/-10 ppm/C high
- Annual stability +/-100 ppm/year
- Carrying case and calibration report included

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	42030A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Four-Terminal Pair Standard Resistor Set

Specifications

PARAMETER	VALUE
Alias	HP 42030A; Agilent 42030A; Keysight 42030A
Resistance range	1 mOhm to 100 kOhm
Module count	9

- 42031A: 1 mOhm +/-0.2%
- 42032A: 10 mOhm +/-0.2%
- 42033A: 100 mOhm +/-0.2%
- 42034A: 1 Ohm +/-0.2%
- 42035A: 10 Ohm +/-0.1%
- 42036A: 100 Ohm +/-0.1%
- 42037A: 1 kOhm +/-0.1%
- 42038A: 10 kOhm +/-0.1%
- 42039A: 100 kOhm +/-0.1%

Specifications

PARAMETER	VALUE
Terminal connector	4-terminal pair BNC
Temperature coefficient 1 mOhm to 1 Ohm	+/-15 ppm/C
Temperature coefficient 10 Ohm to 100 kOhm	+/-10 ppm/C

Specifications

PARAMETER	VALUE
Annual stability	+/-100 ppm/year
Operating temperature	23 C +/-5 C
Operating humidity	<=70% RH

Specifications

PARAMETER	VALUE
Module dimensions	94 x 31 x 67 mm
Module weight	170 g each
Carrying case dimensions	400 x 120 x 290 mm

Specifications

PARAMETER	VALUE
Set total weight	3700 g
Storage temperature	-40 C to +70 C
Applicable instruments	E4980A, E4980AL, E4981A, E4990A class

Included: carrying case 42030-60100 and calibration report

Notes

Specs from Keysight 42030A Operation and Service / user manual tables. Confirm calibration report and module serials in the case.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.