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Data Sheet

August 14, 2026

AGILENT / HP

Agilent / HP 4284A Precision LCR Meter

The Agilent 4284A is a precision LCR meter covering 20 Hz to 1 MHz with basic accuracy to 0.05 percent class. OEM 4284A materials list wide impedance range, programmable test signal level, and optional DC bias for component production and R&D. Precision capacitor and inductor testing, production LCR sorting, and materials measurements with appropriate fixtures to 1 MHz. Measurement Parameters: ZYthetaDQRXGBCs Cp Ls Lp Test Signal Level Class: programmable wide level range Operating Temperature Class: standard laboratory class Calibration Interval Class: annual calibration class recommended Firmware Upgrade Path: option and firmware upgradeable class From Agilent 4284A precision LCR meter documentation. Basic accuracy applies within stated impedance frequency and level conditions on the data sheet.



MODEL

Agilent / HP 4284A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4284A

LISTING

<https://aumictechlabs.com/products/4284a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/HP 4284A Precision LCR Meter delivers high-accuracy component and material characterization across a broad frequency spectrum. Built for research, production testing, quality assurance, and incoming inspection, the 4284A combines measurement versatility with cost-effective operation and compliance with IEC/MIL test standards. Technical Specifications The 4284A measures impedance ($|Z|$), admittance ($|Y|$), inductance (L), capacitance (C), resistance (R), conductance (G), dissipation factor (D), quality factor (Q), equivalent series resistance (Rs),

parallel resistance (R_p), reactance (X), susceptance (B), and phase angle (θ). Measurement combinations and deviation calculations from programmable reference values are supported. Frequency coverage spans 20 Hz to 1 MHz with 8610 selectable frequencies at $\pm 0.01\%$ accuracy. Test signal modes include Normal (program-selected voltage or current) and Constant (maintained voltage or current independent of DUT impedance changes). Voltage ranges from 5 mVrms to 2 Vrms (Normal Mode) with $\pm(3\% \text{ of reading} + 0.5 \text{ mVrms})$ accuracy in Constant Mode and $\pm(10\% + 1 \text{ mVrms})$ in Non-constant Mode. Current ranges from 50 μArms to 20 mArms (Normal Mode) with $\pm(3\% \text{ of reading} + 5 \mu\text{Arms})$ accuracy in Constant Mode and $\pm(10\% + 10 \mu\text{Arms})$ in Non-constant Mode. Option 001 extends capabilities to 20 Vrms / 0.2 Arms with variable $\pm 40 \text{ Vdc}$ bias. Basic measurement accuracy is 0.05%; at 1 MHz, capacitance achieves 0.05% and dissipation factor 0.0005. L, C, X, and B accuracies apply when measured $D \leq 0.1$. Key Features Four-terminal pair measurement terminals Parallel and Series equivalent measurement circuits Auto and Manual ranging (Hold/Up/Down) Internal, External, BUS (GPIB), and Manual triggering Programmable delay from trigger to measurement: 0 to 60.000 seconds in 1 ms steps Short, Medium, and Long integration time modes Averaging from 1 to 256 measurements Standard test cable lengths: 0 m and 1 m selectable Option 4284A-006 adds 2 m and 4 m cable length selection Typical Applications Research and development, production testing, quality assurance, incoming component inspection, and material characterization. Compatibility & Integration GPIB (BUS) programmability enables integration into automated test systems.

4284A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	20 Hz to 1 MHz
Instrument Type	precision LCR meter
Basic Accuracy Class	0.05 percent class
Measurement Parameters	ZYthetaDQRXGBCs Cp Ls Lp
Test Signal Level Class	programmable wide level range
DC Bias Option	available
Display	dual parameter LCR display
Calibration	open short load compensation
Fixture Support	16047 16034 class fixtures
Frequency Points	spot and list sweep class
Handler Interface	available class
Measurement Speed Class	selectable precision vs speed
Series Family	Agilent 4284A
Sibling Higher Frequency	4285A
Sibling Impedance Analyzer	4294A
Cable Length Correction	supported class
Comparator Function	available class
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class
Operating temperature	Class: standard laboratory class

4284A Specifications

PARAMETER	VALUE
Agilent 4284A Precision LCR Meter	Overview
Applications	Precision capacitor and inductor testing, production LCR sorting, and materials measurements with appropriate fixtures to 1 MHz.
Key Features	20 Hz to 1 MHz precision LCR
Technical Specifications	Frequency Range: 20 Hz to 1 MHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
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Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes From Agilent 4284A precision LCR meter documentation. Basic accuracy applies within stated impedance frequency and level conditions on the data sheet.

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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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.