


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 4274A LCR METER

HP / Agilent 4274A Multi-Frequency LCR Meter The 4274A is a multi-frequency LCR meter covering 100 Hz to 100 kHz with 11 spot frequencies. Together with the 4275A it provides precision LCR coverage from 100 Hz to 10 MHz at 0.1% basic accuracy. Test level is continuously variable from 1 mV to 5 Vrms with a four-terminal-pair front end and automatic zero offset. The 4274A is a multi-frequency LCR meter covering 100 Hz to 100 kHz with 11 spot frequencies. Together with the 4275A it provides precision LCR coverage from 100 Hz to 10 MHz at 0.1% basic accuracy. Test level is continuously variable from 1 mV to 5 Vrms with a four-terminal-pair front end and automatic zero offset.



MODEL

HP / Agilent 4274A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4274A

LISTING

<https://aumictechlabs.com/products/4274a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 4274A is a microprocessor-based LCR meter engineered for precision impedance characterization of electronic components, materials, and circuits across diverse operating conditions. This instrument delivers 0.1% basic accuracy and up to 5½-digit resolution, making it essential for R&D, quality control, and production testing environments requiring detailed component analysis. Technical Specifications Measurement Parameters Inductance (L), Capacitance (C), Resistance (R), Dissipation Factor (D), Quality Factor (Q) Equivalent Series Resistance (ESR), Conductance (G), Susceptance (B), Reactance (X) Absolute impedance magnitude ($|Z|$) and Phase Angle (θ) Absolute and percentage deviation measurement Test

Frequencies & Accuracy 100 Hz to 100 kHz range with 11 spot frequencies: 100 Hz, 120 Hz, 200 Hz, 400 Hz, 1 kHz, 2 kHz, 4 kHz, 10 kHz, 20 kHz, 40 kHz, 100 kHz Spot frequency accuracy: $\pm 0.01\%$ Optional support for one or two arbitrary test frequencies Signal Level Control 1 mVrms to 5 Vrms, continuously variable across four ranges Front panel adjustable with integrated test signal level monitor Resolution & Range High resolution: $5\frac{1}{2}$ digits; Normal mode: $4\frac{1}{2}$ digits D resolution to 0.00001 Capacitance: 1 pF to 1000 mF Inductance: 100 nH to 10 kH Resistance: 100 m Ω to 10 M Ω Measurement Modes Series and parallel equivalent circuit selection Automatic mode for circuit topology selection Automatic zero offset compensation; normalization range: $C < 20$ pF, $L < 2000$ nH, $R < 0.5 \Omega$, $G < 1$ kHz), 140–210 ms (≤ 1 kHz) Z- θ mode: 170–210 ms (> 1 kHz), 170–240 ms (≤ 1 kHz) High resolution mode adds approximately $8\times$ normal time Auto-ranging: 100–300 ms per range change Key Features Four-terminal pair configuration with auto-zero adjustment minimizes test lead and fixture errors Internal or external triggering; manual trigger option Auto or manual ranging (Up/Down) Automatic self-test with pass/fail indication Optional DC bias: ± 35 V (1 mV resolution) or ± 99.9 V (100 mV resolution) Electrical Requirements Power: 100/120/220/240 VAC, $\pm 10\%$ (240 V: $+5\%$ / -10%), 48–66 Hz Maximum consumption: 135 VA

Features & description

From manufacturer datasheet

Features

- Eleven spot frequencies 100 Hz to 100 kHz • Continuously variable test level 1 mV to 5 Vrms • 5.5-digit resolution; D to 0.00001 • Four-terminal-pair configuration with auto zero offset • Optional internal DC bias supplies

Applications

- Component L/C/R evaluation under application-like frequencies and levels • Semiconductor and complex-impedance measurements • Production and QA with high resolution and self-test • Pair with 4275A for extended frequency coverage

4274A Characteristics / Specifications

PARAMETER	VALUE
Model	4274A
Manufacturer	HP / Agilent
Instrument Type	Multi-Frequency LCR Meter
Alias	4274A; Agilent 4274A; HP 4274A
Frequency range	100 Hz to 100 kHz
Spot frequencies	100, 120, 200, 400 Hz, 1, 2, 4, 10, 20, 40, 100 kHz (+/-0.01%)
Test signal level	1 mVrms to 5 Vrms (4 ranges, continuously variable)
Basic accuracy	0.1%
Display resolution	5.5 digitDresolution class: 0.00001
Parameters	L, C, R, D, Q, ESR, G, B, X, Z , phase
Power	100/120/220 V +/-10%, 240 V +5/-10%, 48-66 Hz; 135 VA max
Size	177 × 425 × 574 mm
Weight	18 kg
Furnished accessory class	16047A direct coupled test fixture

4274A Specifications

PARAMETER	VALUE
Key Features	- Eleven spot frequencies 100 Hz to 100 kHz
Technical Specifications	Model: 4274A
Notes	Specs from HP 4274A/4275A datasheet literature. Confirm bias options on the unit.

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	
Specifications	
PARAMETER	VALUE
Frequency range	100 Hz to 100 kHz
Spot frequencies	100, 120, 200, 400 Hz, 1, 2, 4, 10, 20, 40, 100 kHz (+/-0.01%)
Test signal level	1 mVrms to 5 Vrms (4 ranges, continuously variable)
Basic accuracy	0.1%
Display resolution	5.5 digit
D resolution class	0.00001
Parameters	L, C, R, D, Q, ESR, G, B, X, Z , phase
Power	100/120/220 V +/-10%, 240 V +5/-10%, 48-66 Hz; 135 VA max
Size	177 x 425 x 574 mm
Weight	18 kg
Furnished accessory class	16047A direct coupled test fixture
Specifications	
PARAMETER	VALUE
Model	4274A
Manufacturer	HP / Agilent
Instrument Type	Multi-Frequency LCR Meter
Alias	4274A; Agilent 4274A; HP 4274A
Specifications	
PARAMETER	VALUE
Frequency range	100 Hz to 100 kHz
Spot frequencies	100, 120, 200, 400 Hz, 1, 2, 4, 10, 20, 40, 100 kHz (+/-0.01%)
Test signal level	1 mVrms to 5 Vrms (4 ranges, continuously variable)
Basic accuracy	0.1%
Display resolution	5.5 digitDresolution class: 0.00001
Parameters	L, C, R, D, Q, ESR, G, B, X, Z , phase

PARAMETER	VALUE
Power	100/120/220 V +/-10%, 240 V +5/-10%, 48-66 Hz; 135 VA max
Size	177 x 425 x 574 mm
Weight	18 kg
Furnished accessory class	16047A direct coupled test fixture

Option 001: 0 to +/-35 V internal DC bias
Option 002: 0 to +/-99.9 V internal DC bias

Notes
Specs from HP 4274A/4275A datasheet literature. Confirm bias options on the unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 12, 2026

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