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Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 4263A LCR Meter

The 4263A is a 0.1% basic-accuracy LCR meter with spot test frequencies of 100 Hz, 120 Hz, 1 kHz, 10 kHz, and 100 kHz (optional 20 kHz). It measures L, C, R, Q, D, $|Z|$, $|Y|$, and related parameters with series/parallel circuit modes, comparator-friendly production features, and HP-IB control. Output impedance: 100 ohm +/-10%; 25 ohm +/-10% (<=1 V class) $|Y|$, G, B range: 10 nS to 1000 S C range: 1 pF to 1 F L range: 10 nH to 100 kH D range: 0.0001 to 9.9999 Power: 90-132 or 198-264 V, 47-66 Hz, 45 VA max Specs from HP 4263A specification sheet. Confirm Opt 001/002 on the unit.



MODEL

HP / Agilent 4263A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4263A

LISTING

<https://aumictechlabs.com/products/4263a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 4263A LCR Meter is a precision impedance measurement instrument for component characterization across manufacturing and laboratory environments. It delivers $\pm 0.1\%$ basic accuracy with selectable test frequencies from 100 Hz to 100 kHz and configurable signal levels from 20 mVrms to 1 Vrms. The 4263A measures inductance, capacitance, resistance, and derived impedance parameters - including optional DC resistance, turns ratio, and mutual inductance - with measurement ranges spanning 1 m Ω to 100 M Ω for impedance and 1 pF to 1 F for capacitance. High-speed measurement modes deliver results in 25 ms (short), 65 ms (medium), or 500 ms (long), with averaging up to 256 cycles for noise reduction. Series and parallel measurement circuit configurations support both absolute and deviation-based analysis.

The instrument integrates HP-IB control for automated test systems and handler interfaces with optically isolated logic signals for PASS/FAIL binning. Internal and external DC bias options enable low-frequency characterization of polarized components. Front-end protection safeguards against charged capacitor discharge during DUT insertion.

Technical Specifications

Accuracy: $\pm 0.1\%$ basic

Test Frequencies: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz; optional 20 kHz

Test Signal Levels: 20 mVrms to 1 Vrms (5 mVrms resolution)

Impedance Range: $1\text{ m}\Omega$ to $100\text{ M}\Omega$ ($|Z|$, R, X); 10 nS to 1000 S ($|Y|$, G, B)

Capacitance Range: 1 pF to 1 F

Inductance Range: 10 nH to 100 μH

Measurement Parameters: $|Z|$, $|Y|$, q, R, X, G, B, L, C, Q, D, ESR; optional DCR, N, M

Measurement Time: 25 ms (short), 65 ms (medium), 500 ms (long)

Averaging: 1 to 256 cycles

Output Impedance: $100\text{ }\Omega \pm 10\%$, $25\text{ }\Omega \pm 10\%$

Internal DC Bias: 1.5 V and 2 V ($\pm 5\%$ + 2 mV accuracy)

External DC Bias: 0 to +2.5 V or 0 to +3 V

Display: 5-digit

Key Features

- 25 ms high-speed measurement for increased throughput
- Auto and manual ranging with series/parallel circuit modes
- Automatic contact check for handler integration
- Multiple trigger modes: internal, external, manual, HP-IB
- Delay programming: 0 to 9999 ms in 1 ms steps
- Test cable length compensation: 0 m, 1 m, 2 m, 4 m
- Internal capacitor discharge protection

Interfaces

- HP-IB (IEEE 488) for system control and data transfer
- Handler interface with optically isolated open collectors

Typical Applications

- Component acceptance testing in manufacturing
- Electrolytic capacitor and transformer characterization
- Quality assurance and incoming inspection
- Impedance and equivalent series resistance analysis

Features & description

From manufacturer datasheet

Features

- 0.1% basic accuracy
- Spot frequencies including optional 20 kHz
- Option 001 adds DCR, turns ratio N, and mutual inductance M
- Short/medium/long integration and averaging 1 to 256
- Internal DC bias 1.5 V and 2 V; external bias 0 to +3 V

Applications

- Component L/C/R incoming inspection and production test
- Transformer turns-ratio / mutual inductance with Option 001
- Cable-length compensated fixture measurements
- Automated test via HP-IB

4263A Characteristics / Specifications

PARAMETER	VALUE
Model	4263A
Manufacturer	HP / Agilent
Instrument Type	LCR Meter
Alias	4263A; Agilent 4263A; HP 4263A
Test frequencies	100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz
Frequency accuracy	+/-0.01% (most spots); +/-1% at 120 Hz
AC test signal levels	50 mV, 100 mV, 250 mV, 500 mV, 1 V rms
Output impedance	100 ohm +/-10%; 25 ohm +/-10% (<=1 V class)
Internal DC bias	1.5 V and 2 V
External DC bias	0 to +3 V $ Z $, R, X range: 1 mohm to 100 Mohm $ Y $, G, B range: 10 nS to 1000 S C range: 1 pF to 1 F L range: 10 nH to 100 kH D range: 0.0001 to 9.9999
Basic accuracy	+/-0.1%
Power	90-132 or 198-264 V, 47-66 Hz, 45 VA max
Operating temperature	0 to 55 C
Size	320 × 100 × 300 mm class
Weight	4.5 kg Notes Specs from HP 4263A specification sheet. Confirm Opt 001/002 on the unit.

4263A Specifications

PARAMETER	VALUE
HP / Agilent 4263A LCR Meter	Overview
Applications	- Component L/C/R incoming inspection and production test
Key Features	- 0.1% basic accuracy
Technical Specifications	Model: 4263A
Notes	Specs from HP 4263A specification sheet. Confirm Opt 001/002 on the unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
Operating Temperature	0 to 55 C
Size	320 × 100 × 300 mm class
Weight	4.5 kg Notes Specs from HP 4263A specification sheet. Confirm Opt 001/002 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
C range	1 pF to 1 F
L range	10 nH to 100 kH
D range	0.0001 to 9.9999
Basic accuracy	+/-0.1%
Power	90-132 or 198-264 V, 47-66 Hz, 45 VA max
Operating temperature	0 to 55 C
Size	320 x 100 x 300 mm class
Weight	4.5 kg

Specifications

PARAMETER	VALUE
Model	4263A
Manufacturer	HP / Agilent
Instrument Type	LCR Meter
Alias	4263A; Agilent 4263A; HP 4263A

Test frequencies: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz
Option 002: add 20 kHz

Specifications

PARAMETER	VALUE
Frequency accuracy	+/-0.01% (most spots); +/-1% at 120 Hz
AC test signal levels	50 mV, 100 mV, 250 mV, 500 mV, 1 V rms
Output impedance	100 ohm +/-10%; 25 ohm +/-10% (<=1 V class)
Internal DC bias	1.5 V and 2 V
External DC bias	0 to +3 V

|Z|, R, X range: 1 mohm to 100 Mohm
|Y|, G, B range: 10 nS to 1000 S
C range: 1 pF to 1 F
L range: 10 nH to 100 kH
D range: 0.0001 to 9.9999

Specifications

PARAMETER	VALUE
Basic accuracy	+/-0.1%
Power	90-132 or 198-264 V, 47-66 Hz, 45 VA max
Operating temperature	0 to 55 C
Size	320 x 100 x 300 mm class
Weight	4.5 kg

Notes
Specs from HP 4263A specification sheet. Confirm Opt 001/002 on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 001	Cable-length compensated fixture measurements

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.