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Agilent 4263B LCR Meter, 100 Hz to 100 kHz

Configuration Guide



Agilent Technologies

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Ordering Guide

The following steps will guide you through configuring your 4263B.

Standard Furnished Item	
Description	**Additional Information**
CD-ROM Manual	Contains Operation and Programming manuals in PDF. See documentation option for printed manuals.
Power Cable	
Certificate of Calibration	

Note: Test Fixture and printed copy of Operation and Service Manual are not furnished. Refer to Documentation Option and Available Accessories for the selection of these items.

Step 1. Choose Software Option for Transformer Measurement (If not required, go to Step 2)

Description	Option No.	Requires	Not Compatible	Additional Information
Add N/M/DCR Measurement Function	4263B-001	None	None	Adds turns-ratio, mutual inductance and DC resistance measurement functions for transformers. See Available Accessories (General Measurement Accessories) for available transformer test fixture.

Note: Refer to Software Upgrade for retrofit information on the above option.

Step 2. Choose Software Option for General Measurement (If not required, go to Step 3)

Description	Option No.	Requires	Not Compatible	Additional Information
Add 20 kHz Measurement	4263B-002	None	None	Adds 20 kHz test frequency

Step 3. Choose Accessory Option (If not required, go to Step 4)

Description	Option No.	Requires	Not Compatible	Additional Information
Rackmount Kit	4263B-1CM	None	None	
Front Handle Kit	4263B-1CN	None	None	

Note: Combination Handle/Rack Mount Kit option is not available.

Step 4. Choose Documentation Option (If not required, go to Step 5)

Description	Option No.	Additional Information
U.S. - English Localization	4263B-ABA	Printed manuals are not furnished. Order documentation option if required.
Japan - Japanese Localization	4263B-ABJ	
Service Manual	4263B-0BW	

Step 5. Choose Calibration Certificate Option (If not required, go to Step 6)

Description	Option No.	Additional Information
ISO 17025 compliant calibration	4263B-1A7	ISO 17025 compliant calibration
ANSI Z540 compliant calibration	4263B-A6J	ANSI Z540 compliant calibration

Step 6. Choose Warranty Plan

1-year Return-to-Agilent Warranty and Service Plan are standard. For extended warranty options and additional information, contact your local Agilent sales office or visit the Agilent home website.

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Hardware Upgrade

Option No.	Description	Upgrade Model No. or Equivalent Part Number	Customer Installable	Requires (Instrument must already include the following)	Not Compatible	Additional Information
4263B-1CM	Rackmount Kit	5063-9241	Yes	None	None	
4263B-1CN	Front Handle Kit	5063-9226	Yes	None	None	

Software Upgrade

Option No.	Description	Upgrade Model No. or Equivalent Part Number	Customer Installable	Requires (Instrument must already include the following)	Not Compatible	Additional Information
4263B-001	Add N/M/DCR Measurement Function	4263V-001	No	None	None	Installable at Service Center only
4263B-002	Add 20 kHz Measurement	Not available	No	–	–	Not upgradeable

Note: For firmware update and upgrade information, refer to product homepage on the Agilent home website.

Available Accessories – General Measurement Accessories

Description	Model Number	Requires (Instrument must already include the following)	Additional Information
SMD Test Fixture	16034E	None	For SMD; (0.1 to 8)L x (0.5 to 10)W x (0.5 to 10)H mm. Operation and Service Manual is furnished.
SMD Test Fixture	16034G	None	For SMD; (0.1 to 5)L x (0.3 to 1.6)W x (0.3 to 1.6)H mm. 100 Ω SMD resistors set is furnished.
	16034G-ABA	None	U.S. – English localization
	16034G-ABJ	None	Japan – Japanese localization
SMD Test Fixture	16034H	None	For Array-type SMD; (0.1 to 5)L x (≤ 15)W x (0.6 to 3)H mm. 100 Ω SMD resistors set and Operation Manual are furnished.
SMD Test Fixture	16044A	None	Kelvin contact test fixture for SMD; (1.6 to 8)L x (0.8 to 8)W x (0.8 to 3)H mm
	16044A-ABA	None	U.S. - English localization
	16044A-ABJ	None	Japan – Japanese localization

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Available Accessories – General Measurement Accessories – continued

Description	Model Number	Requires (Instrument must already include the following)	Additional Information
Test Fixture	16047A	None	For axial or radial lead device. Operation and Service Manual is furnished.
	16047A-701	None	Adds Shorting plate
Test Fixture	16047D	None	For axial or radial lead device. Operation and Service Manual is furnished.
	16047D-701	None	Adds Shorting plate
Test Fixture	16047E	None	For axial or radial lead device
	16047E-ABA	None	U.S. - English localization
	16047E-ABJ	None	Japan – Japanese localization
Test Leads	16048A	None	BNC connector leads; 0.94 m. BNC connector bracket and Operation and Service Manual are furnished.
Test Leads	16048D	None	BNC connector leads; 1.89 m. BNC connector bracket and Operation and Service Manual are furnished.
Test Leads	16048E	None	BNC connector leads; 3.8 m. BNC connector bracket and Operation and Service Manual are furnished.
Test Leads	16048-60030	None	Equivalent to previous 16048B BNC–SMC connector leads; 0.94 m
	16033-60001	None	SMC connector bracket for 16048-60030 test leads
Transformer Test Fixture	16060A	4263B-001	Test leads with 4 alligator clips; Simplifies measurement of inductance and Rdc for secondary winding of transformer. Operation and Service Manual is furnished.
Tweezers Test Fixture	16334A	None	For SMD; ≤ 10 mm L. Tweezers type; cable length 1 m. Shorting block and Operation and Service Manual are furnished.
Kelvin Clip Leads	16089A	None	2 large clips. Choose mandatory option 16089A-800 or C20. Operation and Service Manual is furnished.
	16089A-800	None	Cable length: 1 m (standard)
	16089A-C20	None	Cable length: 2 m
Kelvin Clip Leads	16089B	None	2 medium clips. Choose mandatory option 16089B-800 or C20. Operation and Service Manual is furnished.
	16089B-800	None	Cable length: 1 m (standard)
	16089B-C20	None	Cable length: 2 m
Kelvin IC Clip Leads	16089C	None	2 IC clips; cable length 1 m. Operation and Service Manual is furnished.

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Available Accessories – General Measurement Accessories – continued

Description	Model Number	Requires (Instrument must already include the following)	Additional Information
Alligator Clip Leads	16089D	None	4 medium clips; cable length 1 m. Operation and Service Manual is furnished.
Kelvin Clip Leads	16089E	None	2 large clips; cable length 1 m. Operation Note is furnished.
4-Terminal to 7 mm Coaxial Adapter	16085B	None	Terminal converter for using RF component test fixture such as the 16092A, 16192A, 16194A, 16196A/B/C/D and 16197A. Operation Note is furnished.
Dielectric Test Fixture	16451B	None	Test fixture for measuring permittivity of dry solid sheet material; Cable length 1 m. 38 mm and 5 mm diameter electrodes for measuring bare material and two types of electrodes for measuring material with pre-formed electrodes are furnished.
	16451B-ABA	None	U.S. - English localization
	16451B-ABJ	None	Japan – Japanese localization
Liquid Test Fixture	16452A	None (16048A or 16452-61601 Test Leads recommended)	Test fixture for measuring permittivity of liquid material. Required volume of material; 3.4, 3.8, 4.8 or 6.8 ml. Temperature range: –20 ° to +125 °C. Shorting plate, spacers, SMA-BNC adapters, fixture stand, carrying case and Operation and Service Manual are furnished.
Test Leads	16452-61601	None	Heat-proof test leads for use with the 16452A. Temperature range: –20 ° to +125 °C
3-Terminal SMD Test Fixture	16043-60011	None	Equivalent to previous 16043A. For related options and accessories, see Note below this table.
3-Terminal SMD Test Fixture	16043-60012	None	Equivalent to previous 16043B. For related options and accessories, see Note below this table.
Balanced/Unbalanced 4-Terminal Converter	16314-60011	None	Equivalent to previous 16314A; Unbalanced 50 Ω to balanced 50 Ω converter for measuring balanced device or circuit. Shorting bar and 50 Ω resistor for Short/Load compensation and Operation and Service Manual are furnished.

Note: For more detailed information, refer to Accessories Selection Guide for Impedance Measurements.

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Available Accessories – External DC Bias Accessories

Description	Model Number	Requires (Instrument must already include the following)	Additional Information
External Voltage Bias Fixture	16065A	None	±200 V dc max., for axial or radial lead device. Shorting plate and Operation and Service Manual are furnished.
External Bias Adapter	16065C	None	External DC bias adapter; ±40 V dc max., 100 Hz to 1 MHz. Compatible with all the test fixtures, test leads and clip leads except for the 16060A. Operation and Service Manual is furnished.

Note: For more detailed information, refer to Accessories Selection Guide for Impedance Measurements

Available Accessories – for Calibration and Maintenance

Description	Model Number	Requires (Instrument must already include the following)	Additional Information
Open Termination	42090A	None	4-terminal pair Open termination. Needed for performing calibration.
Short Termination	42091A	None	4-terminal pair Short termination. Needed for performing calibration.
4-Terminal Pair Standard Capacitor Set	16380A	None	1 pF, 10 pF, 100 pF and 1000 pF standard capacitor set with carrying case. Calibration report and Operation Note are furnished.
4-Terminal Pair Standard Capacitor Set	16380C	None	0.01 µF, 0.1 µF and 1 µF standard capacitor set with carrying case. Calibration report and Operation Note are furnished.
	16380C-001	None	Adds 10 µF standard capacitor
4-Terminal Pair Standard Resistor Set	42030A	None	9 standard resistors from 1 mΩ to 100 kΩ in decade steps; Carrying case, calibration report and Operation and Service Manual are furnished.

Note: For more detailed information, refer to Accessories Selection Guide for Impedance Measurements

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Literature Resource

Title	Publication Number	Additional Information
4263B Technical Overview	5964-6181E	
LCR Meters, Impedance Analyzers and Test Fixtures Selection Guide	5952-1430E	
Accessories Selection Guide For Impedance Measurements	5965-4792E	
Impedance Measurement Handbook	5950-3000	

Note: More literature is available on the Agilent home website.

Web Resource

Have access to the following website to acquire the latest news, product and support information, application literature and more. **http://www.agilent.com/find/lcrmeters**

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