



# Agilent 4263B LCR Meter, 100 Hz to 100 kHz

## Configuration Guide



Agilent Technologies

# 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.

## 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

## 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.

## 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.

## 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

## Literature Resource

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

## Remove all doubt

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