

Keysight E4982AU
Option 020
Cable Extension
Upgrade Kit

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CAUTION

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

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A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

NOTE

This Note sign denotes important information. It calls attention to a procedure, practice, or condition that is essential for the user to understand.

Safety Summary

The following general safety precautions must be observed during all phases of operation, service, and repair of this instrument. Failure to comply with these precautions or with specific WARNINGS given elsewhere in this manual may impair the protection provided by the equipment. Such noncompliance would also violate safety standards of design, manufacture, and intended use of the instrument. Keysight Technologies assumes no liability for the customer's failure to comply with these precautions.

NOTE

E4982A comply with INSTALLATION CATEGORY II and POLLUTION DEGREE 2 in IEC61010-1. E4982A are INDOOR USE product.

LEDs in E4982A are Class 1 in accordance with IEC60825-1. CLASS 1 LED PRODUCT

- Ground The Instrument

To avoid electric shock hazard, the instrument chassis and cabinet must be connected to a safety ground by the supplied cable with earth blade.

- DO NOT Operate in an Explosive Atmosphere

Do not operate the instrument in the presence of inflammable gasses or fumes. Operation of any electrical instrument in such an environment clearly constitutes a safety hazard.

- Keep Away from Live Circuits

Operating personnel must not remove instrument covers. Component replacement and internal adjustments must be made by qualified maintenance personnel. Do not replace components with the power cable connected. Under certain conditions, dangerous voltage levels may remain even after the power cable has been disconnected. To avoid injuries, always disconnect the power and discharge circuits before touching them.

- DO NOT Service or Adjust the Instrument Alone

Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

- DO NOT Substitute Parts or Modify the Instrument.

To avoid the danger of introducing additional hazards, do not install substitute parts or perform unauthorized modifications to the instrument. Return the instrument to a Keysight Technologies Sales and Service Office for service and repair to ensure that safety features are maintained in operational condition.

- Dangerous Procedure Warnings.

Warnings, such as the example below, precede potentially dangerous procedures throughout this manual. Instructions contained in the warnings must be followed.

WARNING

Dangerous voltage levels, capable of causing death, are present in this instrument. Use extreme caution when handling, testing, and adjusting this instrument.

Safety Symbols

General definitions of safety symbols used on the instrument or in manuals are listed below.



Instruction Manual symbol: the product is marked with this symbol when it is necessary for the user to refer to the instrument manual.



Alternating current.



Direct current.



On (Supply).



Off (Supply).



In-position of push-button switch.



Out-position of push-button switch.



A chassis terminal; a connection to the instrument's chassis, which includes all exposed metal structure.



Standby.

NOTE

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Certification

Keysight Technologies certifies that this product met its published specifications at the time of shipment from the factory. Keysight Technologies further certifies that its calibration measurements are traceable to the United States National Institute of Standards and Technology, to the extent allowed by the Institution's calibration facility or by the calibration facilities of other International Standards Organization members.

Warranty

This Keysight Technologies instrument product is warranted against defects in material and workmanship for a period of one year from the date of shipment, except that in the case of certain components listed in this manual, the warranty shall be for the specified period. During the

warranty period, Keysight Technologies will, at its option, either repair or replace products which prove to be defective.

For warranty service or repair, this product must be returned to a service facility designed by Keysight Technologies. The Buyer shall prepay shipping charges to Keysight Technologies and Keysight Technologies shall pay shipping charges to return the product to the Buyer. However, the Buyer shall pay all shipping charges, duties, and taxes for products returned to Keysight Technologies from another country.

Keysight Technologies warrants that its software and firmware designed by Keysight Technologies for use with an instrument will execute its programming instruction when properly installed on that instrument. Keysight Technologies does not warrant that the operation of the instrument, or software, or firmware will be uninterrupted or error free.

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The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by the Buyer, Buyer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation or maintenance.

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The remedies provided herein are Buyer's sole and exclusive remedies. Keysight Technologies shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

Assistance

Product maintenance agreements and other customer assistance agreements are available for Keysight Technologies products.

For any assistance, contact your nearest Keysight Technologies Sales and Service Office. Addresses are provided at the back of this manual.

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**Keysight E4982AU Option 020 Cable Extension Upgrade Kit
Upgrade Kit**

1 General Information

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Contents of the Keysight E4982AU Option 020 Upgrade Kit 11

This chapter describes the upgrade kit and contents of the kit.

1 General Information

Option 020 Upgrade Kit

The purpose of this kit is to add the Text Fixture Extension Cable into the Keysight E4982A. The kit should be installed at Keysight Service Centre. Contact your nearest Keysight Service Centre to perform the installation.

Contents of the Keysight E4982AU Option 020 Upgrade Kit

The kit includes parts listed in [Table 1](#). If any item is found to be missing, contact the nearest Keysight Technologies office.

Table 1 Contents of the Keysight E4982U Option 020 Upgrade Kit

Description	Part Number	Quantity
Upgrade Manual (This manual)	E4982-90102	1
RF Cable Assembly	E4982-61606	1
SMA(f) - SMA(f) Adapter	1250-2497	3

1 General Information

2 Keysight E4982AU Option 020 Preparation for Use

Option Installation 14

This chapter describes the procedure to install Option 020 into the Keysight E4982A.

Option Installation

The option installation consists of the adjustment, test fixture cable modification, and performance test.

If desired, you may change the cable length from 1m to 2m.

Adjustment

Additional adjustment is not required if the E4982A operates in normal condition.

The adjustment procedure for the E4982A with option 020 is the same as the procedure for the standard E4982A. In adjustment, the option selection just stores the option number into the memory of E4982A.

Test Fixture Cable Modification

NOTE

First and foremost, ensure to perform adjustment for the E4982A.

To install the option 020, add an additional test fixture cable in the upgrade kit by the following procedure.

- 1 Remove the test fixture cable assembly from the N(m)-SMA(f) connector on the E4982A front panel.
- 2 Connect three SMA(f)-SMA(f) adapters at the ends of the test fixture cable assembly.
- 3 Connect ends of the test fixture cable assembly to an additional cable assembly in the upgrade kit. Make sure each cable has corresponding cable markers, RF OUT, PORT1, or PORT2.
- 4 Connect the extended test cable assembly to the N(m)-SMA(f) connectors on the E4982A front panel.

Adjustment

After the option 020 installation, the performance test is required to confirm the specification. However, the functional test is not necessary for the option installation.

Run the performance test according to the E4982A service manual.

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