

E4990A Impedance Analyzer Firmware Revision History

Rev. 20200309

Note:

The purpose of this document is to provide an overview of important changes that could affect a majority of customers. If you have any concerns about a specific issue, contact your local Keysight representative.

Firmware for Windows 7 and for Windows 10

Revision A.03.02 and later can be installed onto the E4990A with Windows 7 and with Windows 10.

Revision A.03.06 ... Released March 2020

- Enhance USBTMC communication between E4990A with Windows 10 and Host PC
- Bug Fix on EULA rejection

Revision A.03.02 ... Released September 2018

- Support the E4990A with Windows 7 and with Windows 10
- Support Flex-ATX CPU
- Support NLT Touch panel
- Update WinDriver
- Update EULA
- Rebranded USB manufacture ID
- Added a command to select Keysight Technologies or Agilent Technologies while reading manufacturer name in the product information via IDN?
- Deleted "Network Mode" softkey
- Added Y axis zooming with multi touch

Bug fixes:

- DCI monitor shows incorrect value, when sweep averaging is turned on.
- The AC output /monitor (Vac/lac) of channel 2 (3 and 4) are incorrect, when ALC, Multiple channel (2,3, or 4) and Point average are used.
- [Diag test] VEE Runtime error when performing Z_1kohm test with open connection.

Firmware for Windows 7

Revision A.01.02 to A.02.20 can be installed onto the E4990A with Windows 7 only.

Revision A.02.20 ... Released July 2016

Bug fixes:

- The adapter setup in the option E4990A-010 (20 Hz to 10 MHz) is not performed properly.

Revision A.02.13 ... Released February 2016

Bug fixes:

- The trace data when using the zero frequency sweep span comes to be strange after changing the “DC Output@Hold” from OFF to ON.

Revision A.02.12 ... Released October 2015

- The frequency sweep during the data acquisition process for the adapter setup is set to “Up” sweep direction automatically as with the 4294A.

Bug fixes:

- When the “DC Output@Hold” softkey has been set to “OFF” and the following conditions are used, the trace data may be incorrect.
 - Zero frequency sweep span or a narrow frequency sweep span is used
 - After starting the sweep (a few points have been measured), the sweep is restarted.

Revision A.02.10 ... Released June 2015

- Supports the Option 001 Enhanced measurement speed up
- Adds the save trace data for multi traces (:MMEM:STOR:TRAC)
- Adds Delay for band change (:SOUR:BAND:DEL)
- Improve measurement speed for Hi-Q measurement
- Update splash screen

Bug fixes:

- AC auto level control fails to converge occasionally.
- When Network Setup "Enable" is pressed during processing, "LAN dialog has stopped working" is shown.

Revision A.02.01 ... Released February 2015

Bug fixes:

- S1P data does not include effectiveness of compensation
- Indexing Service is still running as default setting

Revision A.02.00 ... Released November 2014

- Keysight rebranding
 - Company name and its logo
 - Manufacturer name in the product information via IDN? changed to Keysight Technologies from Agilent Technologies
- Firmware update procedure is changed.
- Network setup menu is changed.

Bug fixes:

- Constant current mode in DC bias function cannot converge in a case.
- DC overload error happens when using constant current mode under segment sweep setting.
- DC bias output doesn't turn off when constant mode is ON, even DC bias output status is changed to "OFF".
- The notation of Start/Stop or Center/Span does not switch in bias sweep with current.
- Cal/Compen point setting should be saved by Save Channel with Cal Only.
- Error 54 is not recorded on error queue.

Revision A.01.03 ... Released August 2014

Bug fixes: Crystal measurement data is different from 4294A

Revision A.01.02 ... Initial Release