

## E4990A Impedance Analyzer Firmware Revision History

Rev. 20160704

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**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.

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**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
- 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