# Keysight E4980A/AL Precision LCR Meter

# E4980A/AL Data Transfer Program Operation Manual

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# Sample Program

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#### 1. General information

#### Overview of the program

This program (a VBA macro for Microsoft Excel®) transfers the list sweep measurement data from the E4980A/AL to a PC.

#### Supported model

Model	
E4980A/AL Precision LCR Meter	

#### Required equipment

- Personal computer
  - \* Microsoft Excel® installed
  - \* Keysight I/O Libraries Suite 16 or higher installed
- Connection cable (Use either one of the following cables)
  - 1. USB cable (type mini-B for E4980A/AL side and type A male for PC side, furnished as an E4980A/AL standard accessory)



- 2. Keysight 82357A or 82357B USB/GPIB Interface
- 3. LAN cable

## 2. Connection configuration through Keysight Connection Expert

- 1. Run Keysight Connection Expert from the start menu on Windows.
- Connect the E4980A/AL and the PC using either USB cable, LAN or USB/GPIB interface.
   Then the connection will be automatically configured. After the connection is properly configured, the E4980A/AL appears on "My Instrument" pane of Keysight Connection Expert as shown in the figure below.



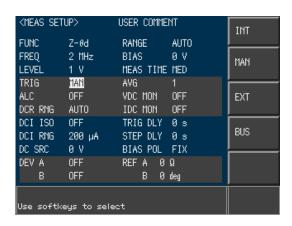
#### 3. How to use the program

 Set the measurement conditions for the list sweep, then perform the compensation. The E4980A/AL can sweep frequency, test signal level, DC bias signal level, DC source level up to

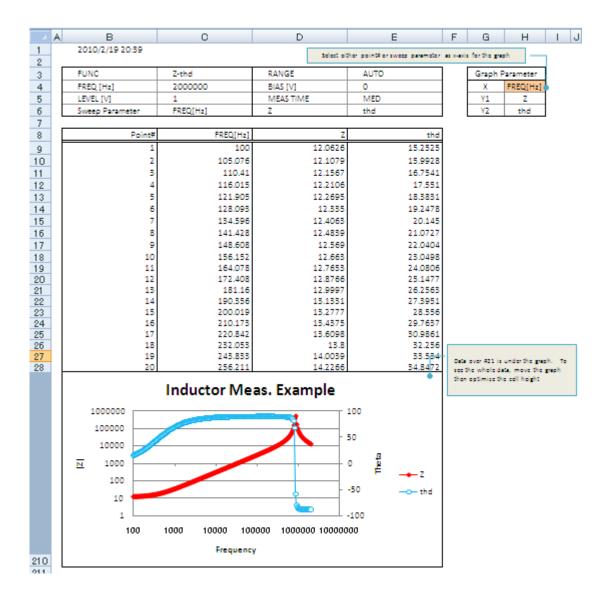
201 points with the list sweep function by pressing Meas Setup hardkey > LIST SETUP softkey.



2. Set the trigger to manual mode by pressing Meas Setup hardkey, then cursor down to the TRIG field to select MAN



- 3. Perform the single trigger measurement with the DUT by pressing Display Format hardkey > LIST SWEEP softkey > Trigger hardkey
- 4. Open "E4980A/AL\_DataTransfer\_xxxx.xls" on the PC. Since this file contains macros, enable "Macros" to boot the program, then follow the "Step-1" and the "Step-2" in the "Main" sheet.
- 5. On the newly created sheet, choose the graph parameter to show the graph properly ( X/Y-axis are changed to Log format in the example below)



## **Revision History**

Revision	Date	Description
01.30	2018/6/14	- Supports LAN as well.
01.20	2011/7/5	- Function added to return to local mode automatically
		- Function added to show measurement mode as graph title
		- Evaluated under Windows 7 and Excel 2010 environment
		- Other minor improvements implemented
01.00	2010/2/22	Initial revision