SUPERSEDES: NONE

4155B Semiconductor Parameter Analyzer

Serial Numbers: See below.

Firmware Update to Fix Some Problems

Duplicate Service Notes:

4155B-10   Serial Numbers: JP00A00000 / JP99Z99999
4156B-10   Serial Numbers: JP00A00000 / JP99Z99999
4155C-02   Serial Numbers: JP00A00000 / JP10J00250
4156C-02   Serial Numbers: JP00A00000 / JP10J00256

To be Performed by: Agilent-qualified personnel

Parts Required: None

Situation:

The following defects are fixed in the firmware (HOSTC 03.01, SMUC 04.02).

- SMU may oscillate when voltage is forced with DV in FLEX mode under the following conditions:

    - Setting except 2 V range before measurement.
    - Measuring with 2 V range / 100 mA compliance setting.

Continued

DATE: June 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 0.5 Hours			
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ■ SERVICE CENTER	SERVICE INVENTORY:	☐ RETURN ☐ SCRAP ☐ SEE TEXT	USED PARTS:	☐ RETURN ☐ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: June 2003			
AUTHOR: TW	ENTITY: 3300	ADDITIONAL INFORMATION:			

Agilent Technologies

- Correct status bit may not be read by using the SPOLL command in US/US42 mode.
- FLEX "WV/WI/QSV Sweep Step Value Too Small" error may occur even if the correct parameters are set.
- Wrong spelling is displayed during NFS mounting.
- HRVSVMU selftest fails intermittently (for 4155C/56C only).

Solution/Action:

Update the firmware to the HOSTC 03.01 and SMUC 04.02 by using the following procedure:

1. Go to the following location:

   ftp://hpyidmk.jpn.agilent.com/dist/dc_para/4155C/firmware/HOSTC03.01/SMUC04.02/

2. Save the 'h0301_s0402.zip' file to a local temporary directory. (Use the BINARY transfer mode to get the file.)

3. Extract directories and files from the 'h0301_s0402.zip' file, which is a 'zip' type compressed file. Four directories (disk1, disk2, disk3, and disk4) are created.

4. Copy the files in each directory to a 3.5-inch disk and label the disk. For example, after you have copied the files in the 'disk1' directory, label it "disk1".

5. Turn off the 4155B/56B/55C/56C.

6. Insert "disk1" into the 4155B/56B/55C/56C and turn on the 4155B/56B/55C/56C.

7. Press the {Yes} primary softkey to start the firmware update.

8. Replace the disks according to the displayed instructions. You use the disks in the following sequence:

   disk1 -> disk 2 -> disk3 -> disk1 -> disk4

   Note that "disk1" is used twice.

9. Wait until the update process completes.

10.Remove the disk and cycle the power.

11.Check the HOSTC and SMUC revisions on the [System]->{Config} page.

To do this update, 41501A,B SMU/PGU Expander is not necessary.