S E R V I C E   N O T E

SUPERSEDES: NONE

34970A Data Acquisition/Switch Unit

Serial Numbers: 0000A00000 / US37038920

Incorrect Temperature Measurements while doing a digital READ/WRITE

To Be Performed By: Agilent-Qualified Personnel or Customer

Parts Required:

Reference	Part Number	Description	Quantity
U401	34970-88891	Rev 11 ROM	1

Situation:

The instrument will make incorrect temperature measurements while doing a digital READ/WRITE with the 34907A module. The cause is a defect in the 34970A firmware revision 01-xx-xx to 09-xx-xx.

34970A configuration for defect:
  *34901A, 34902A, or 34908A - setup for thermocouple (type K,N,R, S,T,B,E) temperature measurements
  *34907A - utilizing digital I/O port for digital reads or writes Correct measurements can be made when the default thermocouple, type J, is used.

Continued

DATE: December 2000

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 1.0 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: December 2005			
AUTHOR: DAA	ENTITY: 0940	ADDITIONAL INFORMATION:			

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Solution / Action:

1.) Determine the firmware revision the customer has. This information can be obtained by
pressing the following key sequence on the front panel:
-Shift
-Advanced (To get to the utility menu)
-Cycle through the utility menu until the revision code appears on the display

2.) This problem is limited to HP 34970A units with revision code 01-xx-xx through 09-xx-xx.

If the unit has any of the above revision's replace the firmware, ROM (U401), with new ver-
sion (34970-88891). To verify correct installation of the new ROM, perform the complete
self test, verify the time/date, and check the firmware version.

Self Test: Hold down the shift key until you hear a long beep while turning on the unit, this
key sequence will initiate the self test.

Time/Date: From front panel press:
-Shift
-Advanced (To get to the utility menu), Time is displayed
-Advanced, Date is displayed

Firmware Version: Instructions to display firmware version in 1.) Make sure firmware dis-
played is 11-XX-XX.

The installation of the new ROM does not require the unit to be re-calibrated.