S E R V I C E   N O T E

SUPERSEDES: 89430A-01

E1431A 25.6 kHz 8 Channel VXI Input Module

Serial Numbers: 3416A00101 / 3440A99999

A. Firmware update to correct defects causing module lock-up.
B. "Unknown Revision" software message explanation

Parts Required:

Part No.	Qty.	Description
E1431-19414	1	Disk-SCPI Driver A.00.04
E1431-19415	1	Disk-Programming A.00.04
E1431-19416	1	DAT Tape-Programming A.00.04

Equipment Required: Qty

* E1431A Swe Disk	1	Firmware Update Utility
E1406A	1	Command Module
E1401A/B/T	1	"C" size VXI Mainframe
RMB Workstation	1	Series 200/300

*To obtain this disk, you must contact your LSID on-line support engineer currently responsible for supporting the E1431A. A disk and installation sheet will be sent to you at no charge. THIS IS ONLY AVAILABLE FOR FIELD SERVICE OFFICES. THIS UTILITY IS NOT FOR CUSTOMER USE.

Continued

DATE: May 1995

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ☐ ON SPECIFIED FAILURE ■ AGREEABLE TIME	STANDARDS: Labor 1.0 Hour			
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: May 1998			
AUTHOR: MJL	ENTITY: A100	ADDITIONAL INFORMATION:			

Agilent Technologies

Situation A:
Units with serial numbers listed above contain several firmware defects which can
cause the customer's system to lock-up. These defects are:

- If local bus is used, the block size must be greater than 16.

- Block size cannot be increased using SCPI, only decreased. To increase the block
  size, cycle power and then select a new block size.

- The Trigger Level cannot be changed when using SCPI.

- The following setup combination cannot be used:

  6.25Hz Trigger Delay 0, manual ARM and manual Trigger

Situation B:
If customer's application software displays the following message, it indicates that the
firmware revision in their E1431A module is newer than their software libraries:

```
"!!! WARNING – E1431 at logical address xxx reports
 unknown revision, date = xxxx"
```

Solution/Action:
The module should be returned to a Service Center for firmware update. The service
center will upload new firmware into the E1431A FLASH ROM and return the unit.

The customer's software libraries should also be updated at this time or the WARNING
message listed above could occur. To do this, order the three part numbers listed at the
top (-19414, -19415, -19416) and ship them back to the customer with the updated
module. These libraries are revision A.00.04.

CAUTION

Note that is a customer has compiled, applications from earlier
versions of the software libraries, these applications may not
work properly after the firmware update. If this happens, the
customer will have to rebuild/compile the application using the
newer libraries which were shipped back with the updated mod-
ule (Revision A.00.04).