S E R V I C E N O T E

SUPERSEDES: NONE

E1431A 25.6 kHz 8 Channel VXI Input Module

Serial Numbers: 0000A00000 / 3425A99999

High Temperature operational failure may not be reported by diagnostics.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Qty.	Description
E1431-69201	1	Exchange E1431A module

Continued

DATE: August 1994

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
MJL	A100	

Agilent Technologies

Situation:
The E1431A module may report an error when the customer is performing an
"e1431_auto_zero_and_phase()" function in the C Interface Library. The error may also
be reported for customers using the SCPI command: "INPut:PHASe:AUTO". This error
may occur only if the module temperature is greater than approximately 55C.

The following error messages will be returned when a module fails due to this problem:

"Auto zero timed out waiting for data"

and if the C Libraries are being used, they will return error number 1275. Since a cus-
tomer could have the module fail at a high temperature and the Service Center not see
the problem at room temperature, the Service Center needs to look for customer com-
plaints that refer to this error message.

If the customer does not use Phase Calibration and does not use the SumBus, then they
are not at risk of having a problem. The function "e1431_auto_zero()" is not affected
and works correctly.

Solution/Action:
Replace the module is the customer complains about this error. Indicate on the returned
module that this was the failure mode. This will aid the factory repair of the module.