L4451A-01

S E R V I C E   N O T E

Supersedes:
NONE

L4451A 4-Channel LXI isolated D/A converter with waveform memory

Serial Numbers: **MY46100199-MY46100220**
MY47000003
SG46100111

Relay contact contamination causes variation in performance.

Parts Required:

P/N	Description	Qty.
L4451-80001	4-Chan DAC w/o GPIB	1
or		
L4451-80002	4-Chan DAC w/GPIB	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY: √ ON SPECIFIED FAILURE [[]] AGREEABLE TIME	STANDARDS LABOR: 0.5 Hours		
LOCATION CATEGORY: [[]] CUSTOMER INSTALLABLE [[]] ON-SITE √ SERVICE CENTER [[]] CHANNEL PARTNER	SERVICE √ RETURN INVENTORY: [[]] SCRAP [[]] SEE TEXT	USED PARTS: [[]] RETURN [[]] SCRAP √ SEE TEXT	
AVAILABILITY: PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: 7/1/2014		
[[]] Calibration Required √ Calibration NOT Required	PRODUCT LINE: BL AUTHOR: TP		
ADDITIONAL INFORMATION: Used parts are to be returned to factory for failure analysis.			

June 7, 2013

Agilent Technologies

Situation:
It has been found that affected L4451A modules described above may have contaminated relays contacts within the high current protection circuits that can cause intermittent variation in the modules specifications.

- This could limit the available output amplitude to ±14V instead of ±16 V when driving the full rate output current of ±10 mA.
- The DC voltage amplitude accuracy could be degraded to ±(0.05% + 2.003V) instead of ±(0.05% + 3mV).
- The DC current compliance voltage limit could be reduced from ±12V to ±8V at the rated output current of ±20mA.

Solution/Action:
If these symptoms are observed, contact Agilent Service for a replacement.

Revision History:

Revision Number	Date	Author	Reason For Change
1.0	6/7/13	TP	As Published