

S E R V I C E N O T E

SUPERSEDES: 4263B-07

4263B LCR Meter

Serial Numbers: JP1KD00100 / JP1KD08661 and MY40100100 / MY40100506

Modification to fix an intermittent illegal data readings*To Be Performed By:** Agilent-Qualified Personnel**Parts Required:** See Solution / Action**Situation:**

Units given serial number above may not meet its measurement accuracy specification due to hardware timing trouble intermittently.

This problem can happens only under the following condition:

Frequency: 100Hz or 120Hz

Measurement time: short

If a customer points out the similar problem, you can confirm it with the following steps.

- 1, Connect 1uF C std to UNKNOWN terminals.(16380b)
- 2, Execute the basic program on Basic/WS or Basic for Windows/PC. (The diagnostics program is listed below or can be downloaded from http://kobemktg.jp.agilent.com/field_eng/service/service_notes/svcnt_4263b.htm)

Continued

DATE: August 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED					
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 2.0 Hours		
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: June 2003			
AUTHOR: TI	ENTITY: 3355	ADDITIONAL INFORMATION:			



Diagnostics Program

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10  !SERVICE NOTE 4263B-7
11  !Setup
12  !Setup
20  T3$=TIMES$(0)
30  A1=0
40  D1=0
50  C=1.E-6                                !DUT Capacitance default=1uF
60  L=5                                    !Test Limit default= ± 5%
70  INPUT "Input the STD CAPACITOR VALUE(default=1E-6)",Ci      !Enter Limit
80  IF Ci>0 THEN C=Ci
90  C3=C
100 C4=C
110 INPUT "ENTER the TORELANCE %(Default=5%)",Li              !Enter Limit
120 IF Li>0 THEN L=Li
130 C2=C+(C*(.01*L))
140 C5=C-(C*(.01*L))
150 T1=TIMEDATE
160 OUTPUT 717;"*RST"                                !Send Reset command
170 OUTPUT 717;":SOUR:FREQ 100"                       !Set Frequency = 100Hz
180 OUTPUT 717;":SENS:FIMP:APER 0.025"              !Set Measurement time: short
190 OUTPUT 717;":INIT:CONT ON"
200 OUTPUT 717;":SENS:FUNC 'FIMP'"                  !Set Frequency = 100Hz
210 OUTPUT 717;":CALC1:FORM CS"                      !Set Measurement Function=Cs
220 OUTPUT 717;":CALC2:FORM D"                      !Set Measurement Function=D
230 OUTPUT 717;":TRIG:SOUR BUS"                    !Set Triggere=Controller
240 A1=A1+1
250 OUTPUT 717;"*TRG"                                !Trigger
260 ENTER 717;S,C1,D2                                !data transfer from 4263B
270 IF C1>C3 THEN C3=C1

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Continued

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280  IF C1>C4 THEN C4=C1
290  PRINT "C";C2,"D:";D2,A1
300  DISP "WORSTCASE DATA MAX=",C3,"MIN=",C4
310  IF C1>C2 THEN GOTO 340           !Higher Limit
320  IF C1>C5 THEN GOTO 340           !Lower Limit
325  IF A1=20000 THEN GOTO 385        !Loop Max 20000 times
330  GOTO 240
340  T2=(TIMEDATE)
350  T3$=TIMES$(T2-T1)
360  PRINT "TEST TIME=",T3$;A1;"times"
370  PRINT "FAIL!!! Replace to Analog Assy"
380  BEEP 1000,5
381  GO TO 390
382  PRINT "Pass!!!"
383  BEEP 2000,5
390  STOP
400  END

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Solution / Action:

This problem can be fixed by replacing with a new analog board

Serial Numbers

JP1KD00100 thru JP1KD02860
 JP1KD02861 thru JP1KD08661
 MY40100100 thru MY40100506

Original Assembly

04263-66501
 04263-66521
 04263-66521

New Assembly

04263-66511 or 04263-69511
 04263-66531 or 04263-69531
 04263-66531 or 04263-69531

Perform all adjustments. And do performance test and functional check to verify instrument operation