



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-GED-DS3800NTDB

Test Procedure for a Cell Monitor Board

DOCUMENT REVISION STATUS: Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Hardin	7/6/2009
B	Changes made to test steps 6.1.5 & 6.1.6 & 6.1.7	RKJ / MBT	12/27/2018
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DATE 7/6/2009	DATE 12/27/2018	DATE	DATE 7/8/2009

<p>LOU-GED-DS3800NTDB REV. B</p>	<p style="text-align: center;">g</p> <p style="text-align: center;">GE Energy Parts & Repair Services Louisville, KY</p>	<p style="text-align: right;">Page 2 of 3</p>
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1. SCOPE

1.1 This is a functional testing procedure for a (Cell Monitor) DS3800NTDB Card.

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to the local documented procedures for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.2.1.1 Wires - broken, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		Fluke 85 DMM or Equivalent
1		120VAC power cord with clips

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Check all components for correct part and value.

6.1.2 Check all stab-On connectors for good connection and complete wetting around both side of connections.

6.1.3 Resistor check

6.1.3.1 Use meter to check resistors. 1CB to 1GB and 1CA to 1GA, you will read 110 ohms (+-5%).

6.1.4 Continuity Check – Check the following points in table 1, they should read less than 1 ohm.

From	To
2PA	1CA
3PA	1HA
1CB	2PB
1HB	3PB

Table 1

6.1.5 Diode test: Apply 5Vdc from 1PB(+) to 2PB(-), Check across 1GB(+) and 1CB(-) for +4.3Vdc.

6.1.6 Diode test: Apply 5Vdc from 1P4(+) to 2PA(-), Check across 1GA(+) and 1CA(-) for +4.3Vdc.

6.1.7 Neon Test

6.1.7.1 Attach power cord from 1AN to 1CB and apply 120VAC. Neon 1L2 should light.
Turn off 120VAC power – remove power cord.

6.1.7.2 Attach power cord from 1CA to 1CB and apply 120VAC. Neon 1L1 should light.
Turn off 120VAC power – remove power cord.

6.2 ***TEST COMPLETE***

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time