



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-DS200FCSA

Test Procedure for a Current Sensing Interface Card

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PREPARED BY G. Chandler	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
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1. SCOPE

1.1 This is a functional testing procedure for a Current Sensing Interface 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.

3.1.1 Check board's electronic folder for more information

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 site specific SRA's 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 87 DMM (or Equivalent)

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6. Testing Process

6.1 Testing Procedure

6.1.1 Verify < 1 ohm between the following points.

6.1.1.1 LEM1-1 to LEM2-1 to LEMPS-1 to CSPL-1

6.1.1.2 LEM1-2 to LEM2-2 to LEMPS-2 to CSPL-2

6.1.1.3 LEM1-3 to LEM2-3 to LEMPS-3 to CSPL-3

6.1.1.4 TB3 to CSPL9

6.1.1.5 TB5 to CSPL11

6.1.1.6 TB1 to E1 to E2 to CSPL-12 to LEM1-9 to LEM2-9

6.1.2 Verify 47 ohms +/- 5% between the following points.

6.1.2.1 LEM1-4 to CSPL-4

6.1.2.2 LEM1-5 to CSPL-5

6.1.2.3 LEM2-4 to CSPL-6

6.1.2.4 LEM2-5 to CSPL-7

6.1.3 Verify 47uf +/-20% between the following points.

6.1.3.1 (+)LEM1-1 to (-) LEM1-2.

6.1.3.2 (+) LEM1-2 to (-) LEM1-3.

6.1.4 Verify 5uf +/- 20% between the following points.

6.1.4.1 TB2 to TB3

6.1.4.2 TB4 to TB5.

6.1.5 Using an ohmmeter verify > 5meg ohm across each arrester (DS1-DS16).

6.2 *TEST COMPLETE *****

7. Notes

7.1 None at this time.

8. Attachments

8.1 None at this time.