



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-IS200DRTD

Test Procedure for an IS200DTRDH1Axx Mark VI RTD input card.

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DATE 09/10/2012	DATE	DATE	DATE 9/10/2012

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1. SCOPE

1.1 This is a functional testing procedure for an IS200DTRDH1Axx Mark VI RTD input 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 189 DMM (or Equivalent)

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Static checks for connections between connectors TB1 and JA1

6.1.1.1 Using multimeter, set for resistance checking function, check for continuity between points listed in following table:

From:	To:
TB1-1	JA1-33
TB1-2	JA1-31
TB1-3	JA1-32
TB1-4	JA1-30
TB1-5	JA1-28
TB1-6	JA1-29
TB1-7	JA1-27
TB1-8	JA1-25
TB1-9	JA1-26
TB1-10	JA1-24
TB1-11	JA1-22
TB1-12	JA1-23
TB1-13	JA1-14
TB1-14	JA1-12
TB1-15	JA1-13
TB1-16	JA1-11
TB1-17	JA1-9
TB1-18	JA1-10
TB1-19	JA1-8
TB1-20	JA1-6
TB1-21	JA1-7
TB1-22	JA1-5
TB1-23	JA1-3
TB1-24	JA1-4

6.1.2 Component Check – Capacitors

6.1.2.1 Using Multimeter, set for Capacitance checking function, verify capacitors are good between SCOM (TB1-35 or 36) and TB1-1 through TB1-24.

6.1.2.2 Using Multimeter, set for Capacitance checking function, verify capacitors are good between SCOM (TB1-35 or 36) and JA1 metal casing.

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6.1.3 CHIP ID: The ID chip needs to be read to confirm that it has been programmed properly. Take the card over to the CHIP ID pc located in the MARK VI area of the shop and select the correct revision of IS200DRTD from the menu and follow the instructions given to you by the pc. When selecting which IS200DRTD to use, you may see a 5G or 7G next to the number. This refers to the serial number and whether it has 5 or 7 digits in it. Select the proper one, as you will be expected to type this number into the system at a given point. When entering this data, be sure to use all CAPITAL LETTERS as lower case might cause it not to agree with what's programmed in the chip. If the particular revision you need to select doesn't have a 5G or 7G next to it, get it added before proceeding.

6.2 *TEST COMPLETE *****

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.