



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-IS200SRTD

Test Procedure for a IS200SRTD Mark Vle card

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Francis	03/11/2014
B			
C			

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DATE 03/11/2014	DATE	DATE	DATE 3/11/2014

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Functional test procedure for IS200SRTD Mark VIe card.

1. SCOPE

1.1 This is a functional testing procedure for the IS200SRTD 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 or cracked

4.2.1.2 Terminal strips / connectors broken or cracked

4.2.1.3 Loose wires

4.2.1.4 Components visually damaged

4.2.1.5 Capacitors leaking

4.2.1.6 Solder joints damaged or cold

4.2.1.7 Circuit board burned or de-laminated

4.2.1.8 Printed wire runs 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	H188922	Mark VIe Simplex Test Rack

6. TESTING PROCESS

6.1 Functional Testing



Note: The following tests assume you are familiar with using ToolboxST. You will need to perform downloads at least twice for UUT to be setup fully. You must also wait for approximately 3 minutes in between downloads for rack and UUT to reboot.

- 6.1.1 Turn "OFF" Rack Power Switch on front of test rack.
- 6.1.2 Remove test card (GOLD card) from test rack and install Unit Under Test (UUT) into test rack.
- 6.1.3 Turn "ON" Rack Power Switch on front of test rack. Wait for approximately 5 minutes for rack to fully boot.
- 6.1.4 Open **ToolboxST** and open "**UCSAH1A_Simplex_Vle**" by double-clicking on it and click the "ONLINE" button in the toolbar.
- 6.1.5 Click on the "HARDWARE" tab, then click on the "+" sign next to the "Simplex" group under the "Distributed IO" icon. This will show you all of the modules setup in the rack. The PRTD module should have a red circle with an X through it, indicating no communications.
- 6.1.6 Double click on the "X" on the PRTD Module. This will bring up a configuration box to enter the serial number of the UUT and hardware form (with daughter card). Click "OK" button when done.
- 6.1.7 From the menu, Download Controller Setup by going to **Device->Download->Download Wizard**. Follow instructions in dialog boxes that follow.
- 6.1.8 After all downloads completed successfully, bring unit online in ToolboxST and check that the red circle with an X through it is gone and ToolboxST will communicate with PRTD Module.
- 6.1.9 Click on the PRTD icon, then click on the "SUMMARY" tab to the right. This should display the live values of all 8 RTD's in GREEN.

6.2 Burn-In

- 6.2.1 Let unit run for at least 48 hours.
- 6.2.2 Cycle power to UUT.
- 6.2.3 Repeat/verify step 6.2.3.
- 6.2.4 If successful testing is complete.

6.3 ***TEST COMPLETE***