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GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-ATE1-DS2020PDMA

Test procedure for a DS200TCPD card tested on the ATE1 Test System

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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Eric Rouse	10/25/2001
B	Transferred procedure from a general group to a specific single document. Also added asset numbers to section 5.	J. Barton	6/30/2010

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DATE 10/25/2001	DATE 6/30/2010	DATE	DATE 7/7/2010

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Functional test procedure for an DS200TCPD card tested on the ATE Test System.

1. SCOPE

- 1.1 This is a test procedure for validating the DS200TCPD card, supporting cable, and resistors.

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	H033779	ATE1
1		DS200TCPD TEST WIRING HARNESS
1	#40	PERSONALITY MODULE
1	None	Fluke 85 or equivalent

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6. TESTING PROCESS

6.1 Setup

- 6.1.1 Remove card from fixture and test as required by ATE instructions for the DS200TCPD card.

6.2 Testing Procedure

- 6.2.1 Identify the test to be used on the ATE by matching the model number with the ones on the system and follow the instructions given after execution.

6.3 Before placing the card back into the fixture measure and verify the following steps.

- 6.3.1 Verify Power Diode Module located below the DS200TCPD card. Should read ~.4 breakover voltage on each (2) diodes internal to module.
- 6.3.2 Remove cover to expose power resisters and verify in good condition and measure appropriate to stamped resistance.
- 6.3.3 Verified wiring harness in good condition.
- 6.3.4 Reassemble fixture and verify all hardware is secure.

6.4 ***TEST COMPLETE***

7. NOTES

- 7.1 Changes to the electronic ATE test are recorded in the [Software Control Database](#)