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GE Industrial Systems

Functional Testing Specification

*Renewal Services
Louisville, KY*

LOU-GED-193X713xx

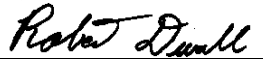
Test Procedure for a 193X713AAG01 Instrument Card

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PREPARED BY Dan Laemmle	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL 
DATE 08/09/02	DATE	DATE	DATE 08/09/02

Functional test procedure for a Meter card

1. SCOPE

1.1 This is a functional testing procedure for a 193X713AAG01 Instrument 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

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 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		Fluke 85 Meter or equiv.
1		0-100v dc supply.

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6. TESTING PROCESS

6.1 Setup

6.1.1

6.2 Testing Procedure

6.2.1 SWITCH TEST. Connect ohmmeter common to black test jack on card front. Check for continuity to tab 31.

6.2.2 Move thumbwheel to position 1. Move ohmmeter common to red test jack. With positive ohmmeter lead on tab 1, continuity should be indicated. In the same way test all switch positions by moving the positive ohmmeter lead to the card tab that corresponds to the thumbwheel number.

6.2.3 VOLTMETER TEST. With card standing on end (meter up) adjust needle zero with plastic screw on back of meter case. Set on-off switch to on and place range switch to X1. Move thumbwheel switch to position 1. Apply +3v dc to tab 1 and com to pin 31. See that meter needle moves upward indicating 3v. Reverse 3v polarity and see that meter needle moves downward to 3v.

6.2.4 Move range switch to X10 and apply + and – 25v to tabs 1 and 31 as above. . Meter should indicate 2.5 in both directions.

6.2.5 Move range switch to X100 and apply + and -100v dc to tabs 1 and 31. Meter should indicate 1 in each direction.

6.3 *****TEST COMPLETE *****

7. NOTES

Thumbwheel switch is no longer available.