

QA Test Report

ADAM-4000 Series

(Random Vibration Test)

Report No : 1999V015

Issue Stamp

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Approval

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QA Lab Reliability test

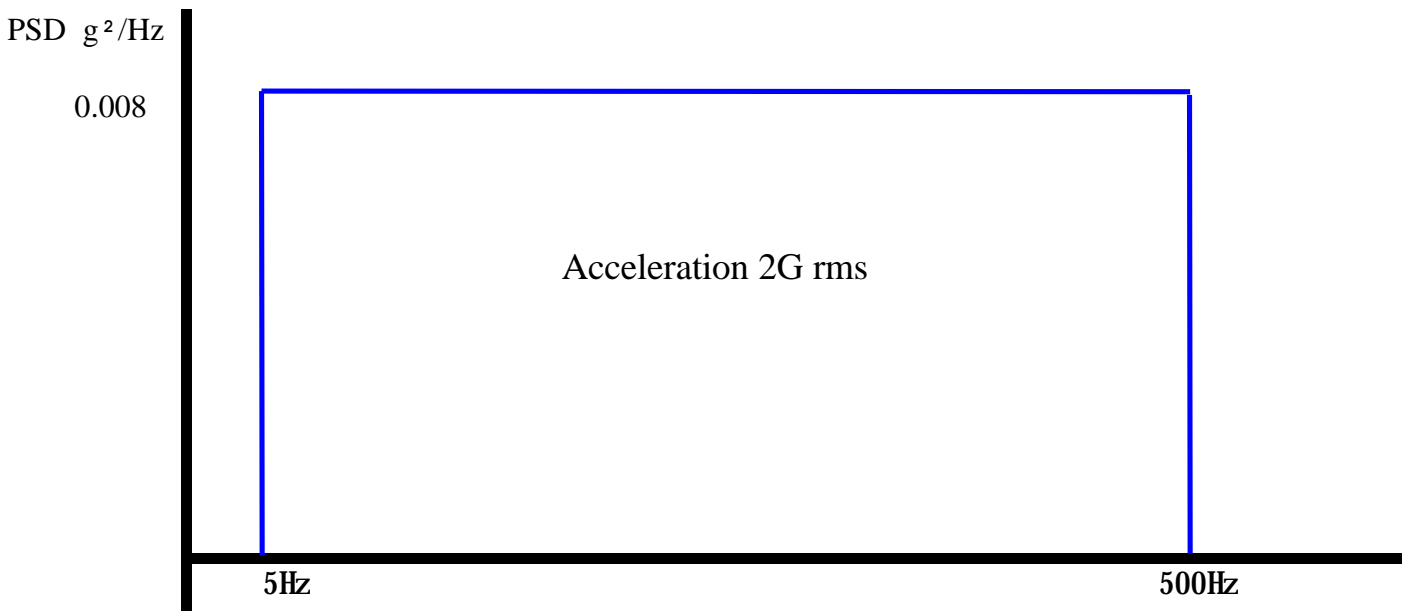
Test Date : April 28, 1999
Test Site : Advantech QA Environment Lab
Performed By : Charles Chang
Art Liao

Purpose : The mass production quality check test

Test Standard : Reference IEC68-2-36 testing procedures
Test Fdb : Random vibration wide band reproducibility medium

Test Condition :

1. Test PSD : 5-500Hz - 0.008G²/Hz
2. Test Frequency : 5-500Hz
3. Test Axis : X,Y,Z axis
4. Test Time : 1hr each axis
5. Test Vibration Curve :



*QA Lab Reliability test***Test Equipment : Vibration Simulator System**

KING DESIGN Co. LTD.

Model : 9363EM-20030-25N80

S / N : MC104053285

Date of Calibration : 04-12-1999

Sample Configuration & Quantity Under Test :

Using ADAM-4000 series module following installed:

- 1.ADAM-4011 Ver B3 Analog I/P module
- 2.ADAM-4011D Ver A1 Analog I/P module with LED display
- 3.ADAM-4012 Ver D1 Analog I/P module
- 4.ADAM-4013 Ver D1 Analog I/P module
- 5.ADAM-4014D Ver A1 Analog I/P module with LED display
- 6.ADAM-4016 Ver A1 Strain gauge I/P module
- 7.ADAM-4017 Ver D1 8-channel Analog I/P module
- 8.ADAM-4018 Ver D1 8-channel Thermocouple module
- 9.ADAM-4021 Ver D1 Analog O/P module
- 10.ADAM-4050 Ver B3 7-channel digital I/O module
- 11.ADAM-4052 Ver B3 8-channel isolated digital I/P module
- 12.ADAM-4053 Ver A1 16-channel isolated digital I/P module
- 13.ADAM-4060 Ver B3 4-channel Relay O/P module
- 14.ADAM-4080 Ver A1 Counter/Frequency I/P module
- 15.ADAM-4080D Ver A1 Counter/Frequency I/P module with LED display
- 16.ADAM-4500 Ver A1 PC based communication controller
- 17.ADAM-4510 Ver D1 RS232/RS-485 Repeater
- 18.ADAM-4520 Ver D1 Isolated RS232 to RS-422/485 converter

Performance Criteria :

Electronic function check:

1. All system function must have properly test and passed this test.

QA Lab Reliability test

Mechanical function check:

1. The connectors, slot can work properly without any interference.
2. The module cover can work properly without any interference or appearance to change.
- 3.the PCB enclosure or mechanical parts must be normal, and no deformed parts found.
4. The subsidiary bracket has without interference of the appearance to found.

Test Result :

Test is no electronic and mechanical function damage or degradation has found, and without any incurably physical damage degradation the performance.

Conclusion :

Passed.

The ADAM-4000 Series meet the 2Grms random vibration test.