

## TEST REPORT

Report No.: HC90005/2011  
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Date: September 20, 2011

POSIFLEX TECHNOLOGY, INC.  
NO. 6, WU-CHUAN ROAD, WU KU,  
TAIPEI HSIEN, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: POS SYSTEM  
Style/ Item No.: KS-7215/ No.1, No.2  
Quantity: Total 2 sets  
Testing Period: Sep. 8, 2011

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)  
Highly Accelerated Stress Screening

Test Object: HASS is used at a product's manufacturing stage. The product is screened at stress levels above specification levels in order to quickly uncover process weaknesses, thereby reducing the infant mortalities, translating to higher quality.

Test Results:

**Conclusion**

Two test units were conducted the HASS test. All test units could work normally after the Highly Accelerated Stress Screening test. The detailed description of HASS result, please see attached sheet(s).

Highly Accelerated Stress Screening: -50°C to +80°C with 10, 20 and 30 Grms for each cycle.

Signed for and on behalf of  
SGS TAIWAN Ltd.



Terence Hsieh  
Department Manager

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## Highly Accelerated Stress Screening:

### Test Equipment:

Name	Brand	Model	Serial No.
OVS Chamber	QualMark	Typhoon 4.0	40T06060716
OVS Accelerometer	Dytran	3030B5	12838
OVS Thermocouple	Omega	C03-T-60	-
Thermal recorder	YOKOGAWA	DA100-13-1D	91F650122
Thermocouple	Omega	5TC-TT-30-72	-

### Lab Environmental Conditions:

Ambient temperature:  $25 \pm 3^{\circ}\text{C}$

Relative humidity:  $55 \pm 20\% \text{RH}$

### Test Setup and Functional Test Description:

The whole test unit, except the hard drive, should be fastened inside the HALT/HASS chamber. And the units were functional tested to evaluate the operation condition of the unit as they must be normal operation during HASS process. All units will be fully operational and be monitored for normal or errors by executing the test software "BurnIn Test V5.1 Pro-「Live Results」" under HASS process. Examine whether the operation of test software for execution of specified test items could work normally or not for functional check during HASS process.

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HASS Setup:

**OVS Control System Thermocouple Placement:**

Channel	Location
Product(Control)	Near Product TC
Air	The case of Frame
Honeywell	2" above access port

**Thermocouple Location for HASS:**

Channel	Type	Location or Description
01	TC	Near Product

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Test Method/ Specification:

**1. Highly Accelerated Stress Screening:**

Combined Environment Stress was performed on unit No.1 and No.2. The thermal cycle was operated from -50°C to +80°C at an average thermal transition rate of 60°C/ minute combined with vibration. Vibration began at a set point of 10, 20 and 30 Grms from the first to the third thermal cycle, with a 10 minutes dwell at each extreme temperature level. The bandwidth used to calculate the Grms levels were 10 Hz to 5000 Hz. The UUTs were monitored for functionality throughout the highly accelerated stress screening.

Test Result:

Cycle	Temperature	Vibration	Pass/Fail	Comments
1	-50°C	10 Grms	Pass	—
	+80°C	10 Grms	Pass	—
2	-50°C	20 Grms	Pass	—
	+80°C	20 Grms	Pass	—
3	-50°C	30 Grms	Pass	—
	+80°C	30 Grms	Pass	—

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### Temperature & Vibration Record:

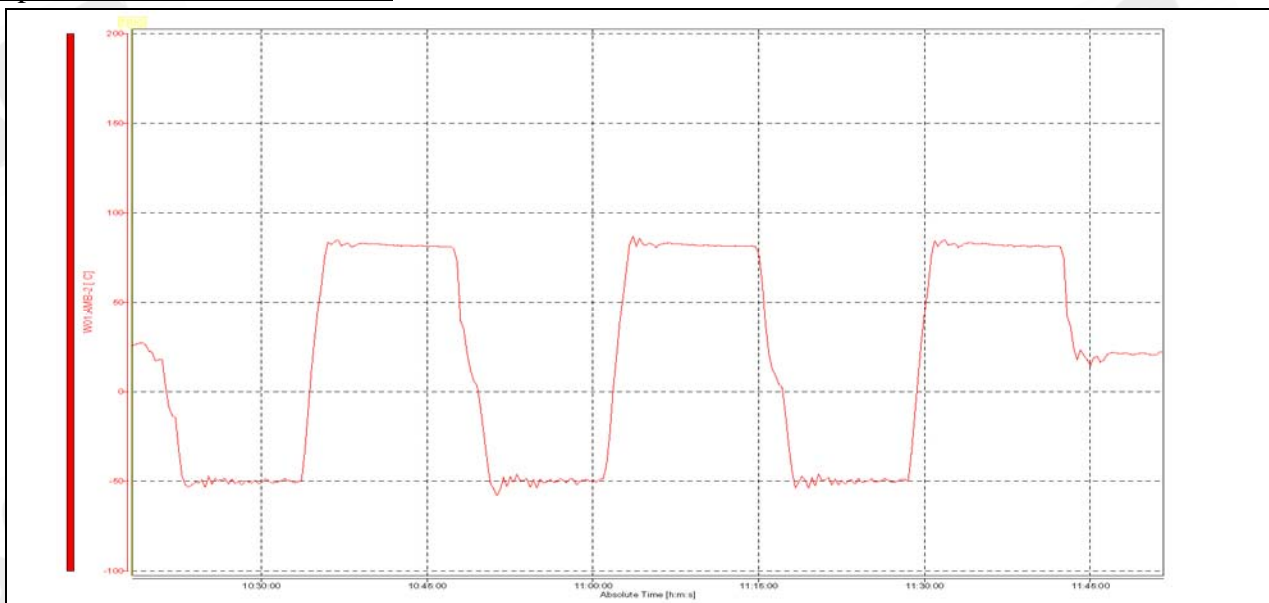



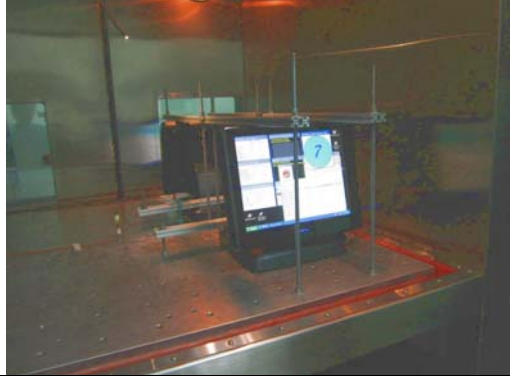


Figure 1. Testing record for Highly Accelerated Stress Screening

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Test Photos:

	
<p>1. Appearance of unit under test KS-7215</p>	<p>2. Functional check</p>
	
<p>3. Highly Accelerated Stress Screening</p>	<p>4. Highly Accelerated Stress Screening</p>

— — — The End of Test Report — — —

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