

## TEST REPORT

報告號碼： HC30221A/2018

頁數： 1 of 11

日期： April 25, 2018

薩摩亞商先豐科技股份有限公司  
台北市松山區民權東路三段 178 號 7 樓

以下產品由客戶提供並確認規格如下：

產品名稱： Data Collection Station 資料採集器

產品型號/ 編號： DCS V1.1/ S18030001, S18030002;  
DCS V2.1/ S18030002, S18030004

生產或供應廠商： 薩摩亞商先豐科技股份有限公司

原產國： 台灣

數量： 共 4 件

測試執行日期： Mar. 29, 2018 to Apr. 3, 2018

我們依照客戶要求，根據客戶送交之樣品進行測試，結果如下：

委託測試要求：(依照客戶提供之測試規格進行試驗，詳細內容請參照附頁。)

1. 冷熱衝擊試驗
2. 溫濕度循環試驗
3. 振動試驗

測試結果： 一如附頁所示—

\*於 2018 年 4 月 10 日簽發之報告(報告號碼：HC30221/2018)在此宣告作廢並由本報告(報告號碼：HC30221A/2018)取代。

Signed for and on behalf of  
SGS TAIWAN Ltd.

曾偉誠

曾偉誠  
技術經理

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## 1. 冷熱衝擊試驗：

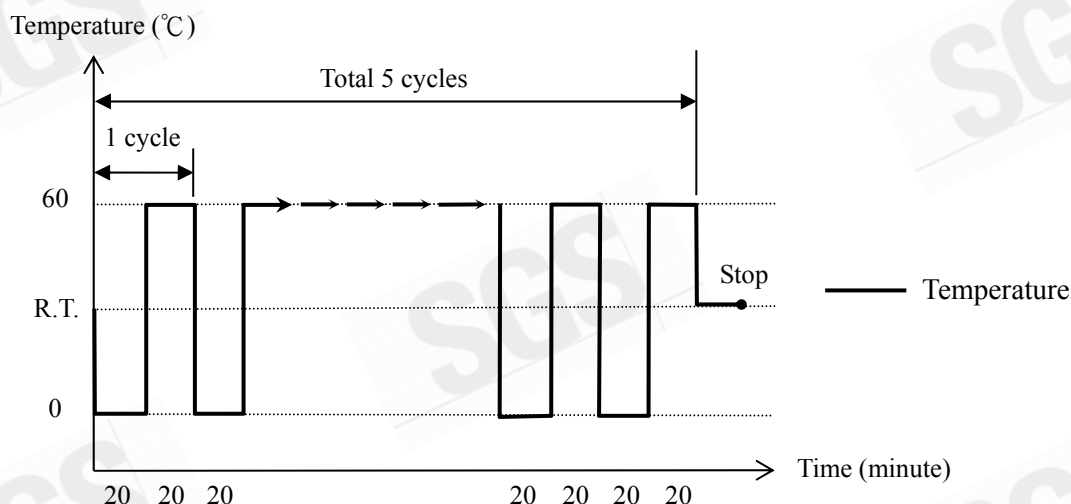
## 試驗設備：

名稱	廠牌	型號	序號
溫度循環試驗機	ESPEC	EGNX28-15CW	1737004

## 實驗室環境條件：

環境溫度：  $(25 \pm 3) ^\circ\text{C}$ 環境濕度：  $(55 \pm 20) \% \text{RH}$ 

## 試驗方法/規格：



- 樣品狀態：非操作狀態
- 試驗中，溫度轉換 20K/ 分鐘
- 試驗後以目視方式檢查樣品外觀及功能檢查。
- 功能檢查：將樣品連接額定電源，確認樣品開機功能是否正常。

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## 代測樣品：

型號/ 編號：

DCS V1.1/ S18030001;DCS V2.1/ S18030002

數量：

共 2 件

## 測試結果：

樣品型號/ 編號 \ 檢查項目	外觀檢查 (目視檢查)	功能檢查
DCS V1.1/ S18030001	無損壞	正常
DCS V2.1/ S18030002	無損壞	正常

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## 2. 溫濕度循環試驗：

## 試驗設備：

名稱	廠牌	型號	序號
可程式型恆溫恆濕試驗機	KSON	THS-D6TS-150+LN2	A0559

## 實驗室環境條件：

環境溫度：  $(25 \pm 3) ^\circ\text{C}$ 環境濕度：  $(55 \pm 20) \% \text{RH}$ 

## 試驗方法/規格：

順序	溫度 ( $^\circ\text{C}$ )	濕度 ( $\% \text{RH}$ )	時間 ( 小時 )
1	25→0	50→-	-
2	0	-	6
3	0→40	-→75	-
4	40	75	4
5	40→60	75→95	-
6	60	95	6
7	60→25	95→50	-
試驗循環數： 共 1 個循環			

- 樣品狀態：操作狀態
- 試驗後以目視方式檢查樣品外觀及功能檢查。
- 功能檢查：將樣品連接額定電源，確認樣品開機功能是否正常。

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代測樣品：

型號/ 編號：

DCS V1.1/ S18030001, S18030002;DCS V2.1/ S18030002, S18030004

數量：

共 4 件測試結果：

樣品型號/ 編號 \ 檢查項目	外觀檢查 (目視檢查)	功能檢查
DCS V1.1/ S18030001	無損壞	正常
DCS V1.1/ S18030002	無損壞	正常
DCS V2.1/ S18030002	無損壞	正常
DCS V2.1/ S18030004	無損壞	正常

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## 3. 振動試驗：

## 試驗設備：

名稱	廠牌	型號	序號
電磁式高頻振動試驗機	King Design	EM-800F2K-50N120	RU104080389
控制器	Dactron	COMET 200	10539718
控制加速規	PCB	353B34	143550
電磁式高頻振動試驗機	King Design	EM-5000F2K-75N600	10923742
控制器	Crystal	spider	1001664
控制加速規	WR	793-6	A4632
控制加速規	PCB	356A24	162319

## 實驗室環境條件：

環境溫度： $(25 \pm 3) ^\circ\text{C}$   
 環境濕度： $(55 \pm 20) \% \text{ RH}$

## 試驗方法/ 規格：

樣品狀態：操作狀態  
 振動波形：正弦波  
 振動頻率範圍： $(5 \sim 33) \text{ Hz}$   
 位移量( $D_{0-p}$ )：0.19 mm  
 掃描速率：1 octave/ minute  
 振動方向：X, Y, Z 軸 (如照片 9 ~ 20)  
 試驗時間：3 分鐘/ 軸

- 於樣品指定位置上黏貼加速規並記錄是否有共振頻率產生。(如照片 9 ~ 11, 15 ~ 17 所示)
- 試驗後以目視方式檢查樣品外觀及功能檢查。
- 功能檢查：將樣品連接額定電源，確認樣品開機功能是否正常。

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## 代測樣品：

型號/ 編號：

DCS V1.1/ S18030001, S18030002;

DCS V2.1/ S18030002, S18030004

數量：

共 4 件

## 測試結果：

## 1. 共振搜尋結果：

Check Item Style/Item No.	主要共振頻率		
	X axis	Y axis	Z axis
DCS V1.1/ S18030001	無共振	無共振	無共振
DCS V1.1/ S18030002	無共振	無共振	無共振
DCS V2.1/ S18030002	無共振	無共振	無共振
DCS V2.1/ S18030004	無共振	無共振	無共振

## 2. 外觀檢查 (目視檢查) &amp; 功能檢查：

檢查項目 樣品型號/ 編號	外觀檢查 (目視檢查)	功能檢查
DCS V1.1/ S18030001	無損壞	正常
DCS V1.1/ S18030002	無損壞	正常
DCS V2.1/ S18030002	無損壞	正常
DCS V2.1/ S18030004	無損壞	正常







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### 試驗照片：

	
1. 樣品外觀: DCS V1.1/ S18030001	2. 樣品外觀: DCS V1.1/ S18030002
	
3. 樣品外觀: DCS V2.1/ S1803002	4. 樣品外觀: DCS V2.1/ S1803004
	
5. 冷熱衝擊試驗	6. 冷熱衝擊試驗

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## 試驗照片--續：

	
7. 溫濕度循環試驗	8. 溫濕度循環試驗
	
9. 加速規黏貼位置: X 軸 DCS V1.1/ S18030001	10. 加速規黏貼位置: Y 軸 DCS V1.1/ S18030001
	
11. 加速規黏貼位置: Z 軸 DCS V1.1/ S18030001	12. 振動試驗: X 軸 DCS V1.1/ S18030001, S18030002

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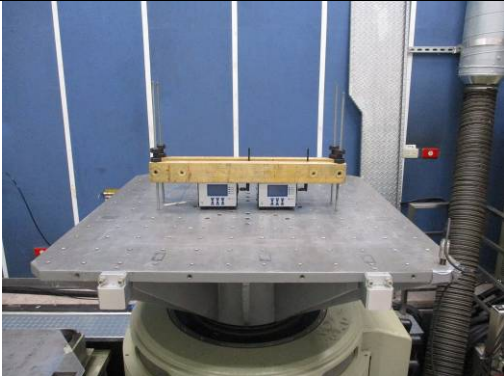


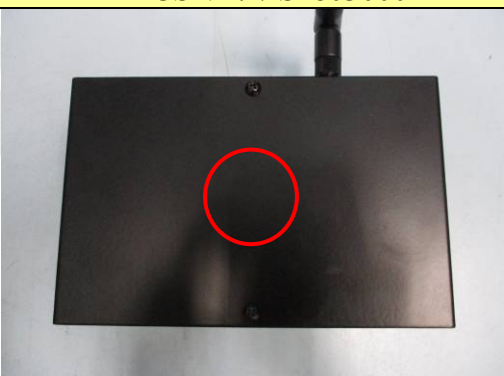

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## 試驗照片--續：

	
13. 振動試驗: Y 軸 DCS V1.1/ S18030001, S18030002	14. 振動試驗: Z 軸 DCS V1.1/ S18030001, S18030002
	
15. 加速規黏貼位置: X 軸 DCS V2.1/ S18030002	16. 加速規黏貼位置: Y 軸 DCS V2.1/ S18030002
	
17. 加速規黏貼位置: Z 軸 DCS V2.1/ S18030002	18. 振動試驗: X 軸 DCS V2.1/ S18030002, S18030004

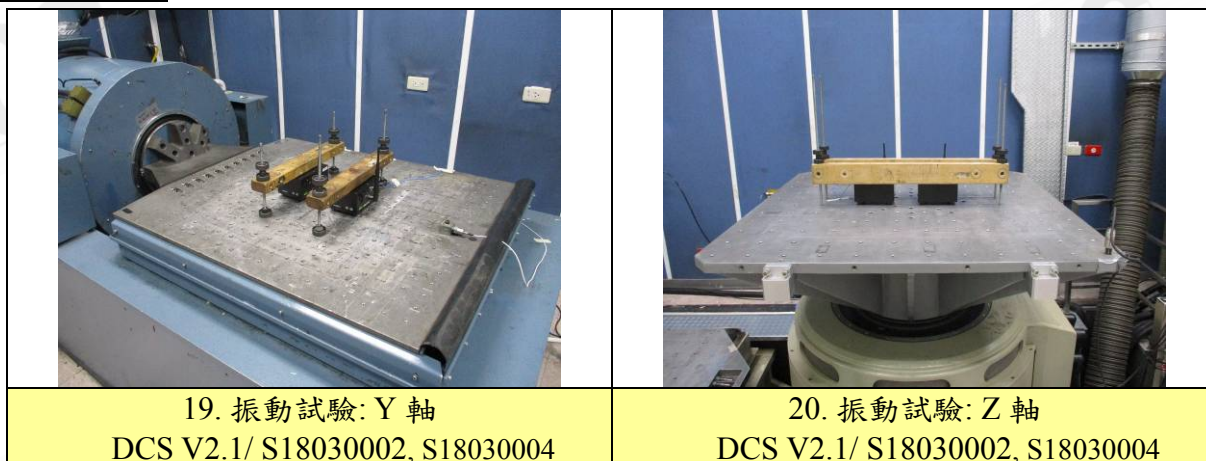
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試驗照片--續：



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