

TEST REPORT

Report No.:

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Date: August 22, 2025

聚謙泰有限公司

台南市善化區進學路 99 巷 2 號 1 樓

以下產品由客戶提供並確認規格如下：

產品名稱： JCT 智慧電子鎖
產品型號/ 編號： Trend 1/ No.1
製造商/ 供應商： 東莞市弘泰電子有限公司
數量： 共 1 件
測試執行日期： Aug. 1, 2025 to Aug. 4, 2025

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：

外殼保護程度試驗 (IEC 60529 Edition 2.2: 2013)

IP 碼	IP55
第一數字碼	防止觸及危險部位及外來固體異物之保護等級
第二數字碼	防水保護等級

測試結果：

結論

送測樣品經過測試符合 IEC 60529 Edition 2.2: 2013 外殼保護程度試驗--IP55 試驗要求及合格判定準則。測試結果之詳細說明如附頁所示。

Signed for and on behalf of
SGS TAIWAN Ltd.

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外殼保護程度試驗：

試驗設備：

名稱	廠牌	型號	序號
1.0 mm Test Wire Probe	Asia Qtech	TRP-2	3041604
Digital Force Gauge	ALGOL	HF-10	HF-111855
Dust Tester	CHTEK	CH-7139-CF-20	39-CFS130301
Standard rain tester	CHTEK	CH-2010-S6	F43L6024
Microprocessor Thermometer	TES	TES-1314	230304729

實驗室環境條件：

環境溫度： (15 ~ 35) °C
 環境濕度： (25 ~ 75) % RH
 環境壓力： (86 ~ 106) kPa

試驗場址： 台南市新市區中華路 19-3 號

試驗方法/規格：

試驗規範： IEC 60529 Edition 2.2: 2013—IP55

1. 防止觸及危險部位之保護試驗：

試驗方法： 將直徑 1.0 mm、長 100 mm 之金屬測試棒施加一指定力量向樣品外殼開口部壓住或插入。檢查試驗棒尖端與待測物之外殼內危險帶電/危險機械轉動部位之間是否有接觸。

測試施加力量： 1 N±10%

2. 防止外來固體異物之保護試驗：

試驗方法： 防塵試驗
 樣品狀態： 非操作狀態
 外殼類型： 類型 2
 防塵種類： 滑石粉
 防塵置放量： 每立方公尺之試驗箱容積，使用 2 kg 之滑石粉
 測試時間： 8 小時

- 試驗後檢查待測物外殼之內部(電源控制裝置)是否有進塵之情形及功能檢查。
- 功能檢查: 連接樣品額定電源，確認樣品開鎖功能是否正常。

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試驗方法/規格--續：3. 防水保護試驗：

樣品狀態：	非操作狀態
測試方式：	使用如測試規範所規定之標準試驗噴嘴, 對待測之外殼其實際上可行之所有方向灑水。
噴嘴內徑：	6.3 mm
水流率：	12.5 l/minute $\pm$ 5%
噴水孔至待測物表面距離：	2.5 m 至 3 m
水流之大小：	噴嘴前端 2.5 m 處之水流直徑約 40 mm
試驗時間：	3 分鐘 (前面)

- 試驗後檢查待測物外殼之內部(電源控制裝置)是否有進水之情形及功能檢查。
- 功能檢查: 連接樣品額定電源, 確認樣品開鎖功能是否正常。

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代測樣品：

型號/ 編號： Trend 1/ No.1

數量： 共 1 件

測試結果：

A. 防止觸及危險部位及外來固體異物之保護等級(IP5X)

A-1 防止觸及危險部位之保護試驗(IP5X)

試驗結果		
檢查項目		樣品型號/ 編號
		Trend 1/ No.1
1	測試棒是否可進入外殼開口部?	否
2	(續 1) 若測試棒可進入待測物之外殼開口部,試驗棒尖端與外殼內危險帶電部位或危險機械轉動部位之間是否有接觸?	N/A
3	(續 2) 試驗棒尖端與外殼內危險帶電部位或危險機械轉動部位之間是否保持適當之空間距離?	N/A
註 1: N/A 表示不適用		
註 2: 上述檢查項目係參考 IEC 60529 Edition 2.2: 2013 試驗要求並依照客戶提供之判定準則實施。		

A-2 防止外來固體異物之保護試驗(IP5X)

試驗結果		
檢查項目		樣品型號/ 編號
		Trend 1/ No.1
1	待測物外殼內部是否有粉塵進入?	否
2	功能檢查	正常
註 1: N/A 表示不適用。		
註 2: 上述檢查項目係參考 IEC 60529 Edition 2.2: 2013 試驗要求並依照客戶提供之判定準則實施。		

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測試結果--續：

B. 防水保護等級(IPX5)

試驗結果		
檢查項目		樣品型號/ 編號
		Trend 1/ No.1
1	待測物外殼之內部是否有進水情形？	否
2	(續 1) 電線或電氣元件附近是否有水滯留？	N/A
2.1	(續 2) 外殼內部浸水時，是否足以阻礙內部器具正常動作及安全之虞？	N/A
2.2	(續 2.1) 是否於沿面距離之絕緣物表面附著有產生電弧軌跡之虞的水分？	N/A
2.3	(續 2.2) 導致未被設計為在潮濕情形下可運轉之帶電部或繞組受潮？	N/A
3	功能檢查	正常
註 1：N/A 表示不適用		
註 2：上述檢查項目係參考 IEC 60529 Edition 2.2: 2013 試驗要求並依照客戶提供之判定準則實施。		

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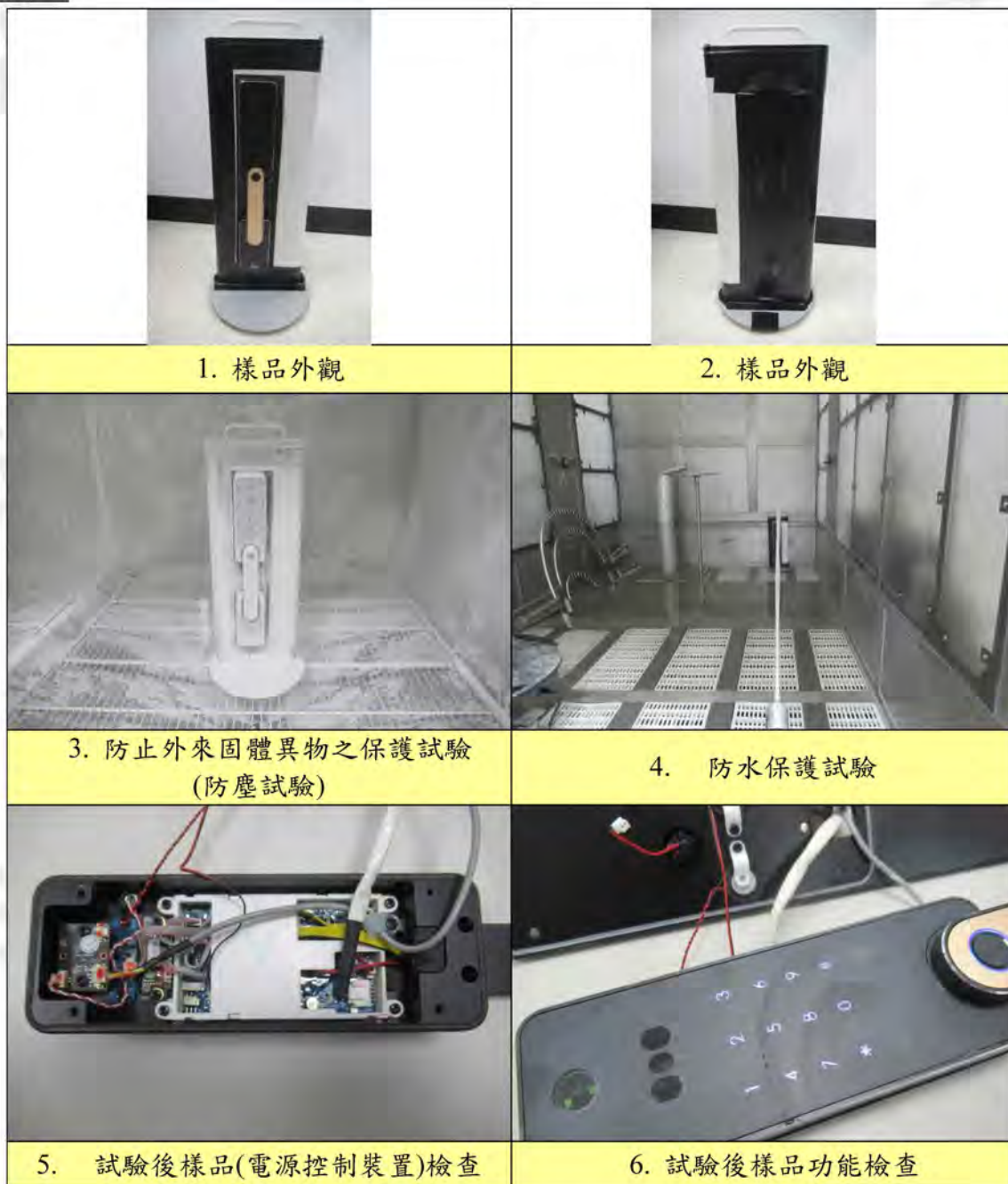
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試驗照片：



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