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E-mail:servicetai@ty-es.com.tw

校 正 日 期

2023/10/24 to 2023/10/25

Calibration Date

器

數位溫度計(溫度記錄器)

Equipment

儀

廠 牌

名

稱

號

**KIMO** 

Manufacturer 型

Model No.

**KTT220-O** 

識別號碼/序號

1D220605898

ID No./ Serial No. 校 單 送

位

長庚醫療財團法人林口長庚紀念醫院

**Applicant** 

送校單位地址

**Applicant Address** 

桃園市龜山區復興街5號

·上項儀器經本實驗室以誠信的態度執行校正作業,校正結果詳述於本報告內。

· The instrument mentioned above has been calibrated in good faith by our laboratory. The details of the calibration results can be found in this certificate.

· 本報告內之數值是在本實驗室規定之環境下執行校正所得的結果。

• The value in this certificate are the results of calibration performed in the environment specified by

this laboratory.
·本報告校正之結果僅對校正報告內提及之送校件有效。

· The results of the calibration in this certificate are only valid for the instruments sent for calibration mentioned in the calibration certificate.

· 本校正報告未得到實驗室書面同意不得任意摘錄或複製使用,但全文複製除外。

· This certificate shall not be reproduced in any form, except in full, without the prior written approval of the calibration laboratory.



報告簽署人 Signed by

張凌育

報告發行日期 Issue Date

2023/10/27

22205 新北市深坑區北深路三段 270 巷 12 號 3 樓 (信義財貿中心) 3F., No.12, Ln 270, Sec. 3, Beishen RD., Shenkeng Dist., New Taipei City 22205, Taiwan (R.O.C) FAX:+886-2-26626377 TEL:+886-2-26627199 http://www.ty-es.com.tw

Certificate No.: A22309110107



### 太一電子檢測有限公司 校正實驗室

Tai Yi Electronics & Surveillance Co., Ltd. Calibration Laboratory

➤ 校正環境條件 Environmental Condition

實驗室環境:

溫 度: (23±2)℃

相對濕度: (50±15)%

➤ 校正地點 Calibration Location

新北市深坑區北深路三段270巷12號3樓 RKE01 溫度/濕度實驗室 RKE01 Temperature/Humidity Lab, 3F., No.12, Ln.270, Sec.3, Beishen Rd., Shenkeng Dist., New Taipei City

- ➤ 校正方法 Calibration Procedure
- · 本校正之實施依據為溫度比對校正程序(文件編號:WI02KE-3 V5.3)
- 本校正是將標準件及待校件感測器,同置於恆溫設備中做比對校正。
- · 校正結果為六次量測讀值之平均值。
- ➤ 擴充不確定度 Expanded Uncertainty
- 本報告之擴充不確定度評估依據: 温度比對校正系統評估報告(文件編號:WI04KE-3)
- · 擴充不確定度 $U=ku_c$ ,其中 $u_c$ 為組合標準不確定度,k=2為信賴水準約95%之涵蓋因子。
- ➤ 計算公式 Equation
- · 器差值 = 器示值(待校件之讀值)-標準值(標準件之讀值)。
- ➤ 校正説明 Description of Calibration
- · 收件日期為 2023/10/20。
- · 校正時待校件搭配之感測器編號:1D220605898-1。
- 量測結果數值,修整至量測結果之擴充不確定度數值的最小有效數字。
- 儀器名稱為證書認可項目對應名稱,顧客使用名稱於括號內表示。

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# 太一電子檢測有限公司 校正實驗室 Tai Yi Electronics & Surveillance Co., Ltd. Calibration Laboratory

#### 校正結果 Calibration Results

#### · 溫度量測 Temperature Measurement

標準值(℃)	器示值(℃)	器差值(℃)	擴充不確定度(℃)
Т1			
-25.0	-25.2	-0.2	0.2
-20.0	-20.0	0.0	0.2
-15.0	-15.0	0.0	0.2

#### ▶ 校正使用之標準件 Standard for Calibration

儀器名稱 Nomenclature	序號	校正機構及追溯報告號碼	追溯日期	有效日期
廠牌/型號 Mfg./Model No.	Serial No.	Cal. Laboratory & Report No.	Trace. Date	Due Date
PRT InterTech/100 Ω	KE0114	TAI-A42306010738	2023/06/27	2025/06/18

校正報告上的標準件可追溯至國際單位制(SI),透過中華民國國家標準實驗室(NML)、美國國家標準實驗室(NIST)、 簽屬CIPM MRA之國家級計量機構或認證實驗室。

The measurement standard(s) listed on the calibration certificate are traceable to the International System of Units (SI) through NML/ROC, NIST/USA, other National Metrology Institute signatories to CIPM MRA or an accredited laboratory.

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## 太一電子檢測有限公司 校正實驗室 TAI YI ELECTRONICS & SURVEILLANCE CO., LTD. CALIBRATION LABORATORY

文件編號:F18-1(版本:5.0) Document No.: F18-1(Ver: 5.0)



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### 校正報告書 校正暨量測實驗室-台北

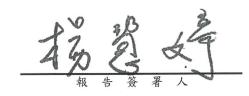
Report Date: 2022/8/15

Report Date · 2022	0/10				
		Report No.:	ECR2230435	第1頁	共2頁
申請者 Applicant	長庚醫療財團法人林口長庚紀念醫院				
儀器名稱 Equipment	電子式溫度記憶組+熱電耦感溫棒				
製造廠商 Manufacturer	KIMO	機型 Model	KTT-220-0+TSFSTT3350HM-030-FF	序號 Serial No.	1D220605898
校正程序 Procedure used	GENP-EC-T018(V 1.4)	收件日期 Received Date	2022/8/11	校正日期 Calibration Date	2022/8/15
校驗者 Operator	蔡坤宏	溫度 ℃ Temperature	(23 ± 5) °C	相對濕度 % Relative Humidity	(50 ± 30) %
顧客地址 遊校地址	333桃園市龜山區公西村復興街5號		校正地點 Location	實驗室	

	實驗室使用標準	器 / SGS Standards	
儀器名稱	製造廠商	機型	標準器校正日期
Equipment	Manufacturer	Model	Calibration Date
Platinum Resistance Thermometer	FLUKE	1529/5628	2021/5/28
	V		
***************************************			,
	,		
序號	追溯單位	報告號碼	標準器有效日期
Serial Number	Traceability	Report No.	Due Date
4811	NML(TAF N0881)	T210050A&11007C01876-1-1-01	2023/5/27

- 台灣檢驗科技股份有限公司特此聲明本報告書內記載之標準器,依ILAC P10之規定,可追溯至ILAC MRA 國際實驗室認證聯盟相互承認協議成員 之認可實驗室,或各國家計量標準機構(NMI),或國際度量衡委員會相互認可協定之機構(CIPM MRA),或驗證參考物質(CRMs)。 有TAF認證標誌之報告表示符合全國認證基金會(TAF)認證範圍之校正項目證書;無TAF認證標誌之報告亦符合本實驗室標準校正作業程序及ISO/IEC 17025之規定。
- SGS Taiwan Ltd hereby declare that traceability follows ILAC P10(ILAC policy on the traceability of measurement results). All standards are directly traceable to TAF recognized lab (members of the ILAC MRA) or to National Metrology Institutes (NMI) or to other international standards (members of the CIPM MRA) or certified reference materials(CRMs). The report with "TAF" accredited symbol represents the certificate of calibration items conforming to TAF accreditation scope; Without "TAF" accredited symbol, the report also complies with the lab's standard calibration operating procedures and ISO/IEC 17025 requirements.
- 本校正報告僅對上述儀器之校正項目有效且未經調整,報告內容不包含校正週期之建議以及符合性判定,除特別聲明外。
- The calibration report is only valid for the instrument mentioned above and has not been adjusted. Unless otherwise specified, the content of the report does not include the suggestion for calibration interval and the determination of compliance.
- 本校正報告部份複製及影本無效。
- To reproduce or copy calibration report in partial is not allowed.
- 溫度計(空氣恆溫比較法)校正作業程序書

Calibration SOP for Thermometer (Comparison method of air)



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#### 校正結果 (Calibration Results)

RptNo.: ECR2230435

第2頁 共2頁

温度部份:(實溫)

CH1+Sensor1

器示值 (℃)	標準值 (℃)	器差值(℃)
-25.0	-25.0	0.0
-19.9	-20.0	0.1
-15.0	-15.0	0.0

#### 校正說明:

- 1.器差值=器示值-標準值
- 2.器差%=【(器示值-標準值)÷標準值】\*100
- 3.器示值係指送校正件所顯示或設定之值
- 4.標準值係指工作標準件之輸出值或顯示值
- 5.校正能力係以約95%信賴水準,k=2之擴充不確定度表示
- 6. 擴充不確定度: 0.4°C
- 7.上述擴充不確定度已包含校正件之不確定度評估結果 -- THE END --

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