

Simcenter MicReD Hardware News - PWT2400A Control Software 2305 -



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Outline

- **Simcenter POWERTESTER Introduction**
- **New Feature of Control Software**
- **Control Software 2305 – Problems Fixed**



Simcenter POWERTESTER Introduction

- Siemens 為了客戶們在使用軟硬體時可更符合世界公認之規範，歷年來不斷更新各項軟體、硬體以及各式平台，
- POWERTESTER 為功率循環測試機台，藉由全自動化測試系統，可量測各式元件並藉由非破壞性分析方式了解元件老化現象，量測過程皆符合 國際標準規範AQG324。

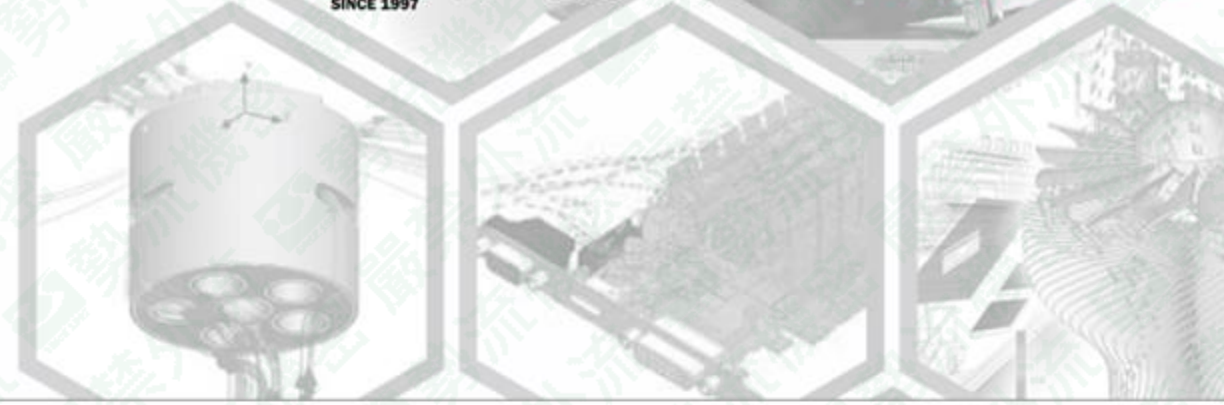


POWERTESTER 2400A

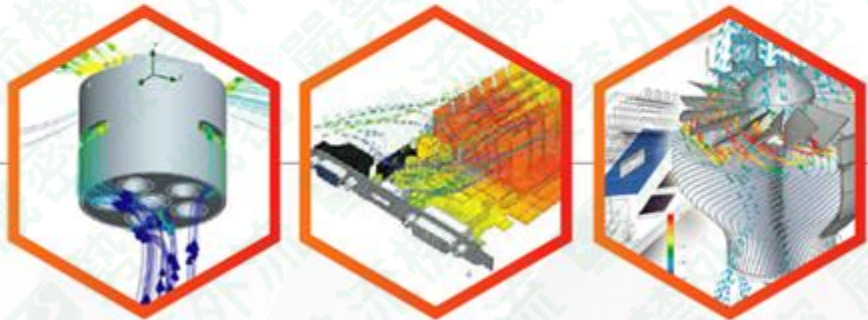


POWERTESTER 1500A、1800A、3600A





Control Software 2305 - New Features



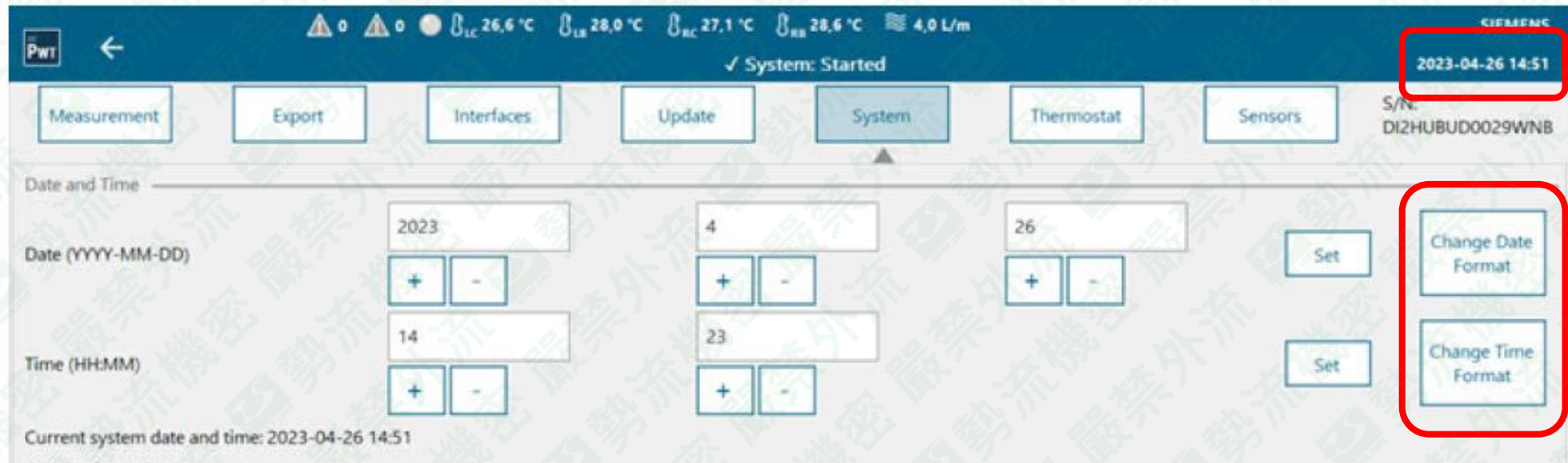
New Features

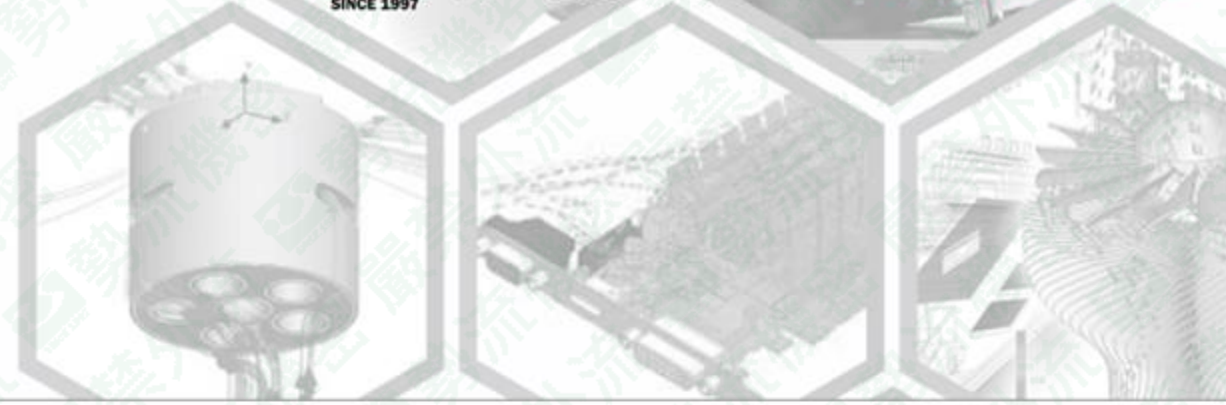
- Support has been added for updating the T3STER SI Firmware using the Firmware Update Installer in the POWERTESTER system. The POWERTESTER Firmware Update Utility only supports the option to upgrade the T3STER SI Firmware.

可藉由POWERTESTER的韌體更功能執行T3STER SI的韌體更新。

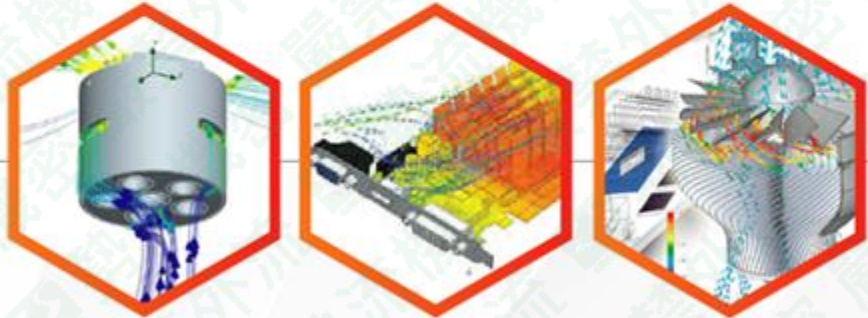
- The POWERTESTER Control Software now supports different date and time formats. The date and time format can be changed on the System screen using the Change Date Format and Change Time Format options.

日期和時間格式可以在系統設定中更改。點擊右上角日期時間，也可切換日期時間的顯示模式。





Control Software 2305 – Problems Fixed



Problems Fixed (1/4)

1. **Description:** The **R(DS,on)** long-term electric view was calculated and displayed for all device types and measurement modes. The **Max. R(DS,on)** cycling stop criteria was also available for all device types/measurement modes.

Fixed : **R(DS,on)**的模式僅適用於MOSFET (MOSFET in saturation mode) , 其他測試方式將不會顯示。

2. **Description:** The secondary power cycling strategy was not displayed on the **Review Settings** page and on the **measurement results** page (during measurements and for finished measurements).

Fixed : 顯示錯誤問題已修復



Problems Fixed (2/4)

3. **Description:** Power cycling stopped when the value set for the **Max I(gate)**, **Gate Bond Wire Check**, **Max R(th,ja)**, and/or **Max Diff R(th,jc)** cycling stop criteria was reached even if the “Continue cycling after sample is dead” option was selected on the CYCLING SETUP screen.

Fixed : 已修正為以上停機參數到達停機標準時，”樣品失效後繼續循環”條件將會繼續執行。

4. **Description:** The **Max. R(th,ja)** stop criterion was not applied during a measurement in case **R(th,jc)** was *disabled* (under **R(th,jc) Settings**), even if the **Max. R(th,ja)** stop criterion was activated on the **CYCLING STOP CRITERIA** screen.

Also, in case **R(th,jc)** was *disabled* and the **Max. R(th,ja)** stop criterion was activated for a measurement, the **R(th,jc)** stop criterion was still applied during power cycling.

Fixed : 已修正為 **R(th,jc)** 量測開啟量測與否，並不影響使用 **Max. R(th,ja)** 停機標準限制。



Problems Fixed (3/4)

5. **Description :** If the **Duty Cycle [%]** value (**CYCLING SETUP** screen) had a decimal floating-point (for example, **33.33**), the **ON Time [sec]** and **OFF Time [sec]** values – set by the user – were changed (recalculated based on the **Duty Cycle [%]** value) in cases when the project was saved and closed, and then reopened.

Fixed：原本機台內部默認工作週期[%]為主要參數，故若機台重新開關機，設定 on/off [s] 的時間數值將會依週期參數為主進而修正，現已修正為已 on/off [s] 時間設定為主，並不會因週期[%]關係進而更動 on/off [s] 時間參數。

6. **Description :** In case there was no external sensor assigned to each channel in a project, no cycling strategy worked as a primary power cycling strategy, except for the **Constant Cycling Current** strategy.

Fixed：已修正，不管有無外部傳感器，並不會影響功率循環測試模式選擇。



Problems Fixed (4/4)

5. **Description** : When double-clicking the **Gate Bond Wire Check** option on the **CONTROL MEASUREMENTS** tab, the button disappeared from the screen.

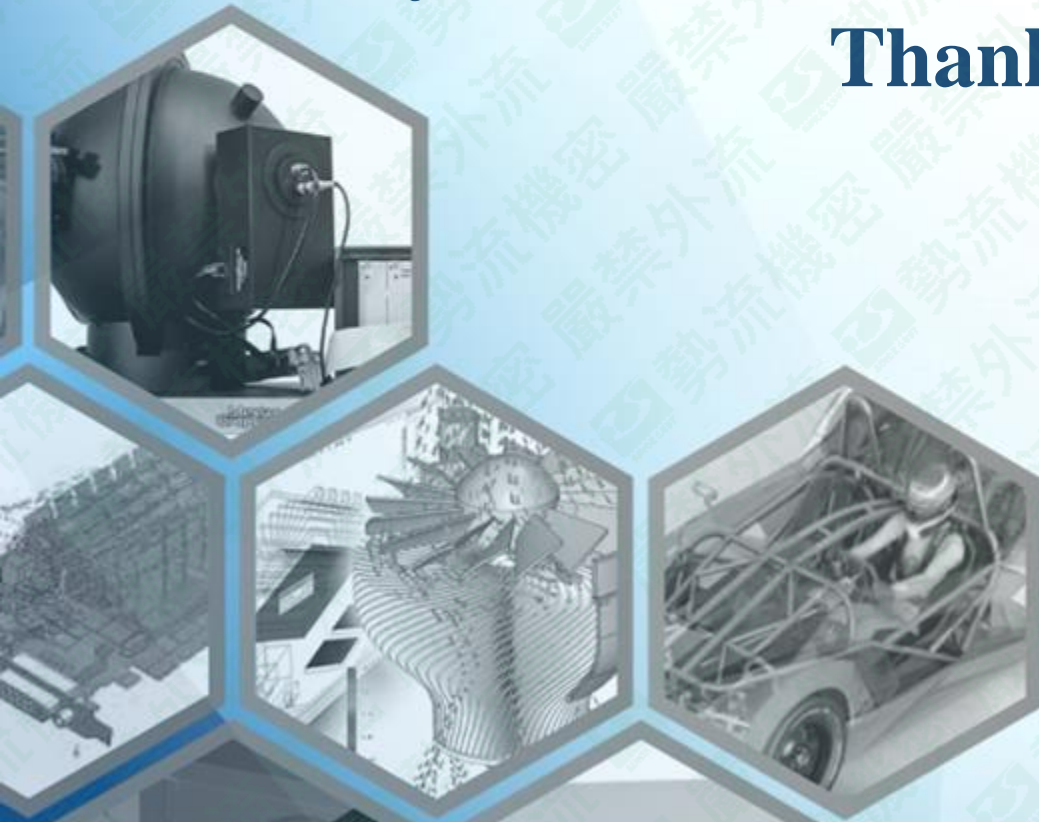
Fixed : 已修正，該按鈕不會消失

6. **Description** : In case the **600A + 1800A PWT Configuration** option was selected for a project in the Control Software, Channel #2 still only allowed 600A to be set.

Fixed : 已修正，可分別使用600A 與 1800A



If you want to know more, welcome to discuss with us
Thank You For Attending



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