

What's New in TRIOS Software V5.3

TRIOS software is now better than ever with key enhancements that will make your TRIOS experience exceptional. The next generation of instrument control and data collection and analysis, TRIOS V5.3 is more efficient and intuitive, allowing you to work faster and easier.

GENERAL TRIOS ENHANCEMENTS AND BUG FIXES

TRIOS Enhancements

- **File Export:** Option added to include analysis results in the Export to Text and Export to Excel© options
- **Analysis:** Split the existing Curve X and Y analysis model into Curve X at Y and Curve Y at X
- **File Parameters:** Record the logged-in Operator at experiment run-time
- **Guardian:** Autofill the logged-in Operator's name into the sample form

RHEOLOGY

Introducing the High Temperature-Advanced Peltier Plate

TRIOS v5.3 supports the new High Temperature-Advanced Peltier Plate (HT-APP), which extends the testing temperature range to 200°C when paired with the Upper Peltier Plate (UPP). For more information on the HT-APP, visit <http://www.tainstruments.com>.

Rheology Enhancements

- **Analysis:** Calculate conversion time for curing materials
- **HR 10, HR 20, HR 30:** Axial force verification for all new HR rheometers

Rheology Bug Fixes

- **DHR/AR Ring on Plate:** Stress calculations have been corrected
- **Extensional Viscosity Accessory:** Pre-stretch and relaxation steps always collect with fast sampling, delivering improved insight to material behavior

THERMAL ANALYSIS

Introducing the Discovery Sorption Analyzer

The Discovery Sorption Analyzer (SA) is used to determine the amount of moisture a material can adsorb or desorb as a function of its mass, temperature, time, and relative humidity. For more information on the new Discovery SA, visit <http://www.tainstruments.com>.

Thermal Analysis Enhancements

- **AutoPilot:** Instrument control blocks added
 - Open Lid (DSC only)
 - Select Gas (DSC, TGA)
 - Gas Flow Rate (DSC, TGA)
 - Event: On/OFF (DSC, TGA)
- **Discovery DSC 25, 250, 2500:** Automatically save the auto-cal Baseline Verification plot as a pdf
- **Discovery TGA 55, 550, 5500:**
 - Added the ability to clear all pan tare values/indicators



Discovery SA

- Added DTA (Temperature Difference) and Weight Percent signals to the list of available signals displayed on the touchscreen
- **Discovery TMA 450:** Enabled the CTE signal, Alpha X1 to X2, Alpha fit X1 to X2, and Alpha at X analysis models when non-reversing dimension change signal is selected

Thermal Analysis Bug Fixes

Adding custom calibration standards, when running TRIOS in German, is now working as expected. Previously, an error occurred upon opening the calibration standard page from the TRIOS Options dialog.

ELECTROFORCE MECHANICAL TEST INSTRUMENTS

TRIOS v5.3 now offers data analysis support for all ElectroForce data types, including the following capabilities:

- Live monitoring data acquired in WinTest, including Timed Data, Peak Valley, Scope, and Level Crossing file types.
- Import all ElectroForce data types into TRIOS
- Overlay ElectroForce data files for sample-to-sample comparisons or merging multiple file types, such as Timed Data and Peak Valley
- Point Display option gives a point-by-point waveform view of any datapoint selected in the DMA results plots

Additional Information

INSTALLING TRIOS SOFTWARE

For instructions on installing TRIOS software, refer to the [Installing TRIOS Software](#) instructions.

MORE RESOURCES

A number of additional resources are available to you. For assistance with TRIOS software, first consult the Help.

For immediate assistance contact the TA Instruments Hotline at +1 302-427-4000 from 8:00 am to 4:30 pm EST.

For email support, please send your question to one of the following:

thermalsupport@tainstruments.com

rheologysupport@tainstruments.com

microcalorimetersupport@tainstruments.com

PREVIOUS WHAT'S NEW DOCUMENTS

For Previous What's New in TRIOS Software documents, [click here](#).

TA INSTRUMENTS OFFICES

For information on our latest products, contact information, and more, see our web site at:

<http://www.tainstruments.com>

TA Instruments — Waters LLC

Corporate Headquarters
159 Lukens Drive
New Castle, DE 19720
USA

Telephone: 302-427-4000

Fax: 302-427-4001

Email: info@tainstruments.com