# Waters™ | TA Instruments — What's New in TAM Assistant Software

## New Features in TAM Assistant v3.1.3

### New Features
- Added external battery calibration support for MIcroXL calorimeter
- Integrated user database passwords are now more secure

### Bug Fixes
- Standby message now appears when TAM IV thermostat is placed in stand by
- Added TAM Assistant version number to results file
- Changed Biologic time base to fix issues with current flow
- Run sequences can now be resumed when experiment is interrupted
- Battery cycler device will now reacquire signal if experiment is disconnected
- Added missing user integrated database settings in TAM Assistant Security
- Added missing "Change password" button to the security ribbon

## New Features in TAM Assistant v3.1

### Introducing the Battery Cycler Microcalorimeter Solution
TAM Assistant software v3.1 combines the TAM IV Microcalorimeter and BioLogic VSP-300 Potentiostat into a single integrated system. The Battery Cycler Microcalorimeter solution offers the perfect in-operando tool that provides seamless system control and data analytics for researchers and scientists of all levels. For more information, visit www.tainstruments.com.

### General Enhancements
- Improved stability when running experiments
- Improved table calculation presentation
- Improved presentation of tabular signal data
- Run Sequence editor improvements
- Improved naming of devices in experiments (added device name to channel name display)

**Bug Fixes**
- Memory leaks fixed
- Fixed bug in manually entering output power in interactive gain calibration
- Fixed incorrect calibration time for TAM IV MicroXL
- Multicalorimeter device initialization could fail if there are empty slots in the calorimeter

# New Features in TAM Assistant v 3.0.16

**Bug Fixes**
- Fixed issue with TAM Air GPT failing to complete
- Fixed issue with heater pulses showing error when one or more Minicalorimeters are diabled
- Fixed out of range error with TAM Air 3-channel data collection

# New Features in TAM Assistant v 3.0.5

**New Features**
- Added runaway watchdog settings to TAM Air user interface

**Bug Fixes**
- Fixed issue with TAM Air GPT failing to complete
- Fixed issue with TAM Air thermostat losing temperature regulation causing a watchdog trigger
- Fixed issue with TAM Air experiments freezing at the end of an experiment
- Fixed issue with TAM Air thermostat jumping to incorrect temperature

# New Features in TAM Assistant v 3.0.4

**New Features**
- Hot-swap possibility for TAM IV accessories
- New Microsoft™ Office-inspired ribbon user interface
- Dashboard device view
- Calibration number drop-down menus

**General Enhancements**
- Embedded software for TAM III changed from Windows XP™ embedded to Windows™ 10 IoT
- Communication infrastructure
- TAM IV firmware updated and communication stability improved
- Simplified firmware updates
- Run sequences improved
- Updated experimental wizards

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

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For information on our latest products, contact information, and more, see our web site at: http://www.tainstruments.com

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