



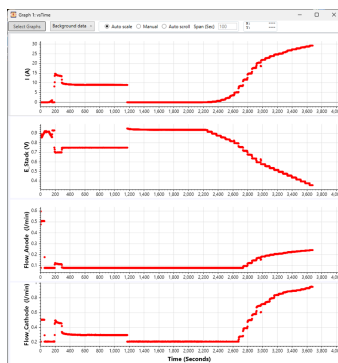
FuelCell 5 New Features

Backwards Compatibility

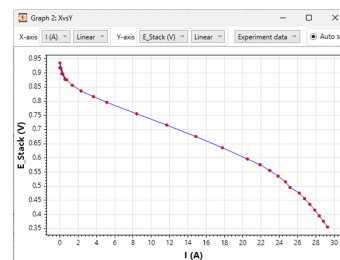
FuelCell 5 is 100% Backwards Compatible with existing FuelCell 4 instrument configuration and setup files. Installing FuelCell 5 will not remove any existing FuelCell 4 installations. Backwards compatibility to FuelCell 4 was top priority and existing users of FuelCell will enjoy a familiar look and feel throughout the app.

Graphing

Graphs have been redesigned using a high performance third party graphing library. Users still have the ability to create the same graphing types. Multiple graph windows of one or both types can be created. A new feature of the vs *Time* graph is the ability to add multiple plots that share a common time axis. This allows for inspection of the various Y values stacked in a vertical orientation for a given time span.

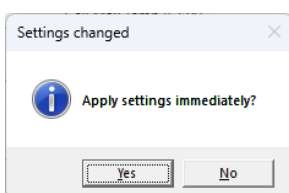


vs Time



XvsY

Apply Immediate Background Settings



When running an experiment list, the background settings can be used to immediately change conditions. For example, if the cell temperature is modified using *Background Setup Cell*, the option is shown to immediately apply the new temperature setpoint.

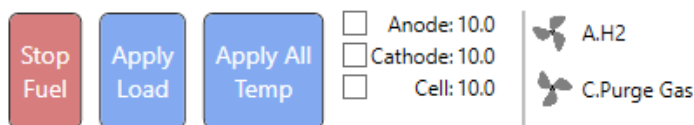
Experiment Descriptions

Experiment list descriptions have been enhanced to better detail the control and measurement settings.

Windows .NET 8

FuelCell 5 has been completely rewritten using Microsoft Windows .NET 8 in order to stay on top of mainstream application development technologies.

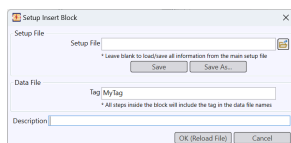
Animated Gas Flow Indicators



A set of visual helpers are displayed to give the user a visual indication of the source of the Fuel or Purge gas as well as the flow rate. The speed of the fans depend on the respective flow rates:

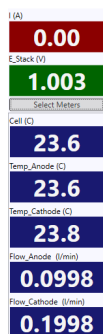
Flow rate (l/min)	Fan rotational speed
flow \geq 0.1	normal
0 < flow < 0.1	slow
flow = 0	0

Insert Block Tag



Experiments placed inside an Insert Block will include the Tag string within the file name. For example, given the string MyTag, an experiment with its Data Filename set to MyData . fcd will be saved as MyData_MyTag . fcd.

User Selectable Meters



More user selectable meters can now be shown on the left side, only limited by the height of the main window..

Release Notes

2026-03-02 v1.0.73:

- Correct Insert-Before inside a Repeat Loop to allow the item to be moved and deleted.
- Corrected a scenario where the experiment duration estimate was incorrect
- NET runtime v8.0.24
- Improved handling of a communications failure
- Prevent Arbitrary Control experiment from turning off Power Supply mode
- Adjust allowable experiments in Load vs. PS mode

2026-02-04 v1.0.63:

- Correct description text for Marker experiment
- S890 COM v1.0.65 (ff39eb9)
- Corrected experiment order in Exp Select dialog
- Installer will abort if FC5 unsupported instrument model is found during FC4->FC5 migration

2025-12-08 v1.0.56:

- FuelCell 5 Manual updated
- S890 v1.065 (ff39eb9)
- Cancel HFR measurement if active at the end of an experiment step
- Refresh ZView so previous measurements can be retrieved
- Gas Mixing/Reformate settings not saved correctly by Instrument Config.
- Clear sweep data when switching to OCV
- Ensure skip to next does not skip multiple experiments
- Attach to session ending event to prevent system reboot/shutdown
- Improved pop-up message if Impedance data is not being saved
- Ensure consistent ordering of experiments in the "Select Experiment Type"™ dialog
- Corrected an issue with Pstat scan V experiment (demo mode)
- Added Gstat experiments (demo mode)
- Fixed a rare shared library incompatibility related to WinUSB in a virtualized environment

2025-10-10 v1.0.41:

- (S890 COM) Mixing Gas was incorrectly displayed (cosmetic UI issue)
- Fixed a visual defect for a text label in the Gas Mixing section of the Fuel dialog
- Ctrl Repeat value was not being updated - it should reflect the current iteration in a repeat loop
- If same file name is used inside repeat loop, always append, don't™t overwrite

2025-08-22 v1.0.33:

- S890 v1.0.26 (2084a25)
- Transfer of FC4 settings incorrectly included disabled mixing gases