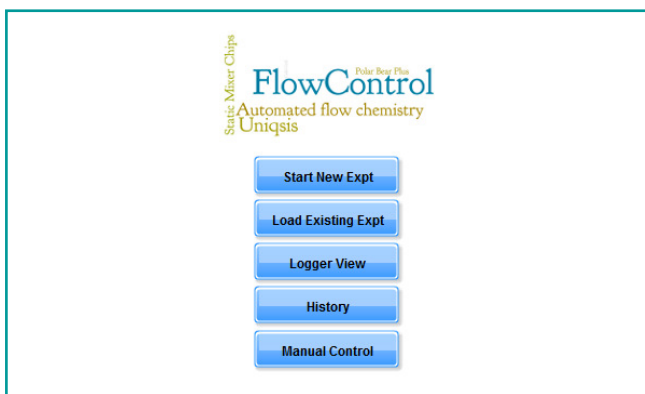


FlowControl™

Complete system control software for FlowSyn™

- Control multiple Uniqsis pump and reactor combinations from a single control interface
- Full real-time data logging with export facility
- Save, reload, edit or export all experimental conditions
- Remote Wi-Fi enabled control option

① Access point: Main Menu



The **Main Menu** provides a simple entry point from which to quickly navigate throughout the software.

For example, the 'Logger View' may be accessed directly and this is very useful when priming or operating the system under manual control.

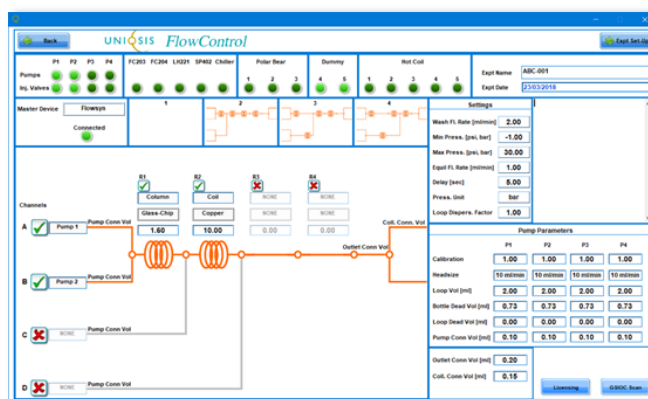
If required, the 'Manual Control' button opens a control panel that gives complete manual control of all system components.

② Experiment planning: Configuration

Initially, the system configuration must be defined, either by loading a pre-existing format or by using the graphical configuration building tool.

Up to 4 pumps and 4 reactor modules may be chosen and there is scope to allow for pump calibration settings and the volumes of all interconnecting tubing.

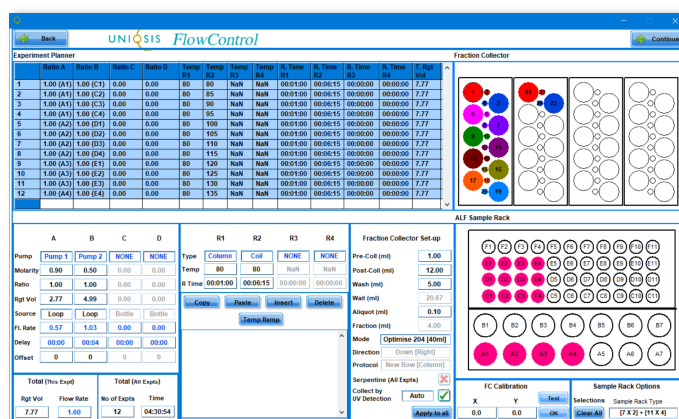
Guidance messages flag up any missing information that is required before continuing to program experiments.



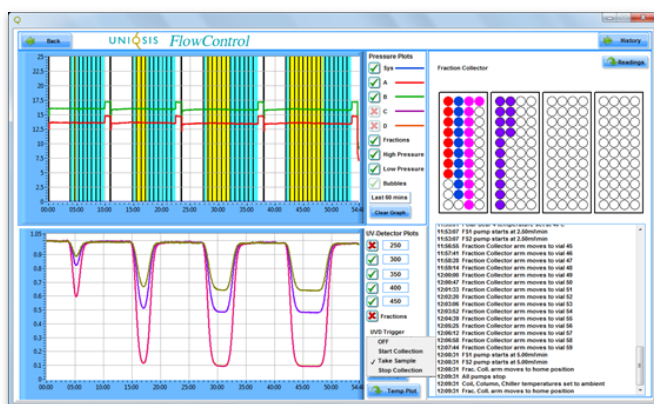
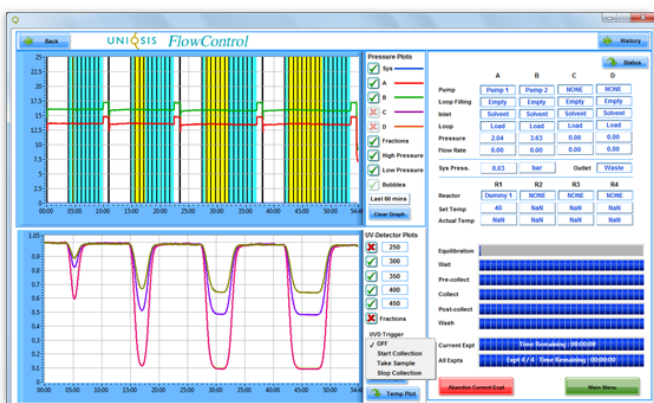
③ Experiment planning: Table View

Individual experiments are planned starting with molarities, reagent ratios, temperatures and residence times, and entered into a table. A 'scheduler' calculates the necessary flow rates and other details of the method. Fraction collection may also be programmed, if required.

Reagent solutions are loaded using bottles or sample loops. Loops may be filled manually or automatically using a liquid handler. 'Clicking' the desired sample in the rack graphic adds it to the method table.



④ Experiment running: Status Screen



Reactor pressures and temperatures are shown graphically in real time in addition to event markers that indicate inlet/outlet valve positions.

Coloured blocks depict fraction collection and individual parameters can be conveniently toggled on/off using the tick/cross buttons.

Flow rates and the progress of different stages of the current reaction are also presented. Alternatively, these parameters can be toggled to show a graphical representation of fraction collection progress and a chronological listing of all programmed automation events such as changes to flow rates or reactor temperatures, valve switches and fraction collector movements or, where fitted, liquid handler actions.

Inline Flow-UV UV/Vis spectrometer transmission data can also be either overlaid for information, or used to automatically control product/fraction collection.

All of this information is automatically saved in the experiment data directory.

⑤ Review data: History View

At any point, whether running an experiment or not, historical data may be loaded and reviewed either graphically or in a textual format.

A 'zoom' facility is useful to examine specific time points in more detail.

FlowControl - take control of your flow chemistry

