

Microlab Software

Choosing a Controller

Hamilton conducted human factor studies to create a clear and understandable system that is communicated through a straightforward user interface. Each screen was thoughtfully designed to simplify the flow of each process and maximize its ease of use.

Basic Controller

The Basic Microlab 600 controller quickly performs standard dilutions and dispensing using a Quick Start screen.

Advanced Controller

The Advanced controller contains a significant number of additional features and allows users to create methods using air gaps, washing, repetitive dispensing, and more. For users with the Basic controller that would like to upgrade, it can be easily converted to the Advanced using a simple software kit (P/N 61500-02).

Basic & Advanced Functionality Comparison

Features	Basic	Advanced
Quick Start Screen – Prime the instrument, program the dispense volume, and start dispensing.	✓	✓
Graphical Pump Status – Animations of the fluid path display the current and future state of the syringe pump.	✓	✓
Adaptive Dispense Control – Adjust dispense volumes in mid-process and the instrument will recalculate the remaining dispenses and proper time to refill.	✓	✓
Configuration Guide – Step-by-step help to set up the instrument.		✓
Wizards – Dedicated Wizards for aliquot dispensing, serial dispensing, dilution, pipetting, and titration.		✓
Favorites Menu – Quickly access frequently used methods.		✓
Custom Method Programming – Create custom applications not covered by a Wizard.		✓
Enhanced Security – Meet 21 CFR Part 11 and FDA GMP/GLP requirements using custom security options.		✓
Method Storage – Create and run more than 1,000 methods on a single controller.		✓
Log File Creation – Create and store files on a memory card, or permanently on a PC using LyncStore™, to meet hardcopy archive requirements.		✓
Language Options – Operate the instrument in 10 languages.		✓
Software Upgrades – Download software updates and receive exciting new features.		✓



Basic Controller Software

The basic controller is ideal for completing simple diluting and dispensing tasks. Quickly set the desired volume in the Quick Start Run Screen and begin.

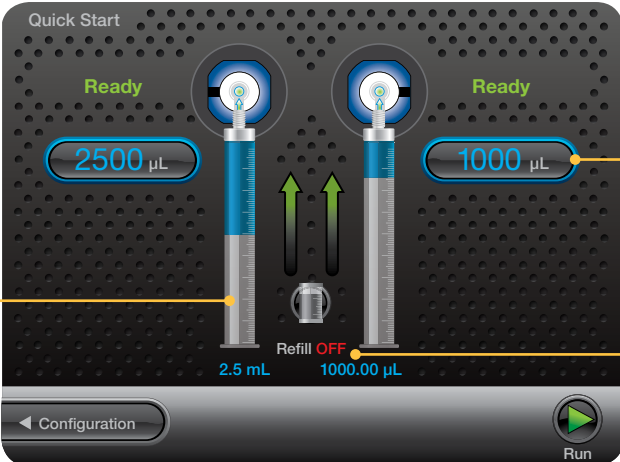
Simple Diluting

Diluent is drawn by the left syringe and sample is drawn into the tubing by the right syringe. Both syringes dispense to complete the dilution.

Simple Dispensing

Solvent is drawn into the syringe and dispensed out through the hand probe. With the Basic controller it is not possible to perform multiple dispenses from a single fill syringe.

Run Screen



The Run Screen interface displays two syringes. The left syringe has a volume display of 2500 μL and is labeled 'Ready'. The right syringe has a volume display of 1000 μL and is also labeled 'Ready'. Below the syringes, there are two green arrows pointing upwards, a 'Refill OFF' indicator, and volume displays for '2.5 mL' and '1000.00 μL '. At the bottom, there is a 'Configuration' button on the left and a 'Run' button on the right.

Graphical status of the current valve and syringe position

Press this button to adjust the dispense volume at any time

Toggle the Auto Refill button ON and OFF

Configuration Screen



The Configuration Screen interface shows three main menu options: 'Quick Start' (represented by a green person icon), 'Configuration' (represented by a purple gear icon), and 'Utilities' (represented by a red and white wrench icon). The 'microLAB 600 Series' logo is at the top. Below the icons, the text 'Quick Start', 'Configuration', and 'Utilities' is displayed.

Press to proceed to the Run screen

Configure valves, syringes, system settings, view firmware revision, etc.

Review system logs and run system updates

Advanced Controller

Wizards

Wizards are designed to simplify the programming of common everyday methods. The controller ships with the most popular Wizards installed but it is simple to add or delete Wizards from the menu. Visit www.hamiltoncompany.com/microlabwizards to see a complete list of available Wizards.



Compliance and Logging

The software provides a variety of security protections, simplifies adherence to FDA GXP regulations, ability to administer user accounts and passwords, create log files that conform to 21 CFR Part 11 and manage log files on a PC using the LyncStore application.



Language Support

The Microlab 600 features language support for English, Spanish, German, French, Italian, Portuguese, Korean, Japanese, Traditional Chinese and Simplified Chinese.



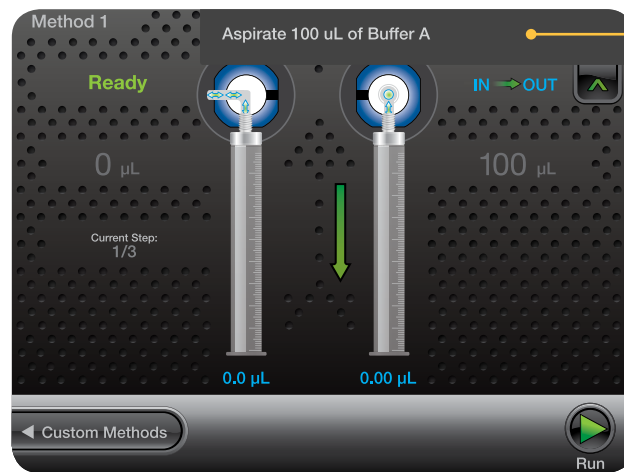
Archiving and Sharing Methods

Favorites and Custom Methods are stored on the Hardware Key. The card can be used to transfer methods between Microlab 600 Controllers or to a PC for archiving. Methods can also be transferred by e-mail between colleagues.



Custom Methods

Custom methods can be created to accomplish unique liquid handling tasks. Incorporate loops, delays, external triggering, and execution counters with valve and syringe movements to create complex methods.



On screen instructions tell the user exactly what to do at each step



LyncStore Software

LyncStore, the new PC-based management system from Hamilton, allows users to easily view, manage, filter, archive, and print log files generated on Advanced Microlab 600 diluters and dispensers. LyncStore meets 21 CFR Part 11 and FDA GMP/GLP requirements making it a valuable addition to regulated labs or labs with increased security protocols.