



# BioTray

Microtechnology for Life Science  
& Chemistry Applications

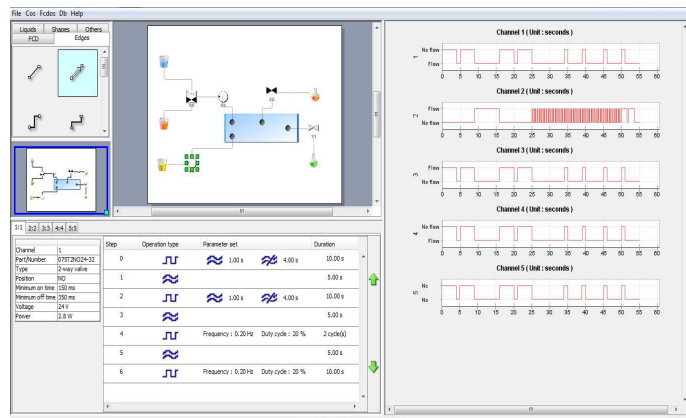
## FlowTest™ & CosDesigner™ Quick Overview

FlowTest™ Controller is able to simultaneously control eight valves and pumps working with 12 VDC or 24 VDC. The CosDesigner software uses a graphical user interface that allows the operator to efficiently program flow sequences as he wants to. FlowTest™ Controller was meant to be a powerful, highly flexible and user friendly tool. How does it work ?

**First Step** - Enter the specifications of the pumps and the valves in the CosDesigner database. The database format is CSV (comma-separated values) : it is easy and fast.

**Second Step** - Draw your fluidic scheme on the design area using the graphical library : Drawing definitely does help thinking smarter.

**Third Step** - Create the operation sequence for each pumps and valves, using CosDesigner software's many features :



- Several operation modes for extended possibilities,
- Various parameter sets available for maximum flexibility and increased capabilities,
- Several duration options (time, number of cycle, volume dispensed),
- Choice of the appropriate time, volume & flow rates units,
- Outstanding "Fit to FCD" feature that automatically adjusts values in accordance with pumps and valves parameters ; it calculates every other parameters too,
- Combine steps with various parameters to built elaborate yet easy to modify sequences.

**Fourth Step** : Build your fluidic experiment. Plug your pumps and valves into the FlowTest™ with the ultra-fast-plug system and launch the sequence.

FlowTest™ Controller can be operated in stand alone mode : a USB key is just what you need to load your program into the FlowTest™ and control it with its play pause & stop keys.

Operation type: Pump

Parameter Set

Frequency, Duty cycle: Min 0.00, Max 4.00, Unit Hz, Duty cycle [%] 2, 80, 97, Initial state No Flow

Intake time / Dispense time: Intake time 0.075, 4.00, ∞, Dispense time 0.175, 1.00, ∞, Initial state No Flow

Pump (µL / cycle): Flow rate 0, 1, 16, Initial state No Flow

Time: Total time 10.00, Number of cycles 2, Dispensed volume 8 µL

Buttons: Fit to FCD, OK, Cancel

**Fast, easy and flexible : with FlowTest™, piloting your pumps and valves will never prevent you from implementing your ideas again.**



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