

HIGH PRECISION SYRINGE PUMPS

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Fusion 4000 Updated Serial Commands for Full Computer Control

| help | • | • |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------|
| | elp -Show Help Information | |
| Movement Commands | | |
| [x] start [y] | - Pump [x] [y](0 Basic/1 Program) Rt | ın |
| [x] stop | - Pump [x] Stop | |
| [x] pause | - Pump [x] Pause | |
| start [y] | - All Pump [y](0 Basic/1 Program) Run | |
| stop | - All Pump Stop | |
| pause | - All Pump Pause | |
| restart | - Pump Restart | |
| [x] set diameter [x.x] [x] set rate [x.x,x.x,] [x] set volume [x.x,x.x,] [x] set delay [xxx] | -Pump [x] Set Rate | |
| Status Commands | | |
| [x] read limit parameter [v] | -Pump [x] Return [y](0 Basic/1 program) Max/Min Volume & Rate | |
| [x] dispensed volume | -Pump [x] Return Volume Dispensed | |
| x elapsed time | -Pump [x] Return Time Elapsed | |
| [x] pump status | -Pump [x] Return System Status | |
| Additional Optional Comman | nds | |
| | meter] [volume] [rate] [delay] meter] [volume] [rate] [delay] start | -Sends All Settings -Sends All Settings and Starts |

The red part will be the updated commands.



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- [x] can be 1, 2, or 3
 - \circ When [x] = 1, that controls Pump Channel 1
 - \circ When [x] = 2, that controls Pump Channel 2
 - When [x] = 3, that controls Pump Channel 1,2 Cycle Mode
- [y] can be 0 or 1
 - \circ When [y] = 0, that sets the pump in Basic Mode
 - \circ When [y] = 1, that sets the pump in Programmable Mode

For example,

- 1 start $1\r =$ start Pump 1 in Programmable Mode
- 2 set rate 5 = sets Pump 2 to infuse at a rate of 5 unit/time
- 1 set volume $1.0,-2.0,3.0\r = sets Pump 1 to Programmable Mode to:$
 - First step volume: infuse 1.0
 - Second step volume: withdraw 2.0
 - Third step volume: infuse 3.0
- 1 set volume 2.0 loop 1, -1.0 loop 2\r = sets Pump 1 to loop in Programmable Mode
 - o First step volume: infuse 2.0; loop once
 - Second step volume: withdraw 1.0; loop twice

To set a step to withdrawal mode, add a negative value before the volume!