

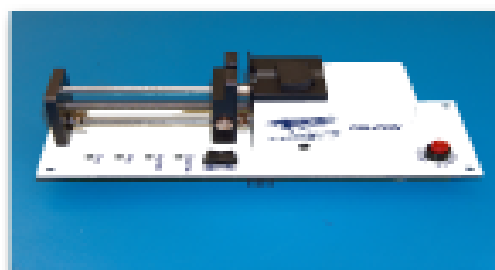
P.O. Box 518  
Ronceverte, WV 24970  
+1 (304) 647-5855  
+1 (304) 645-4006 (Fax)

## Model 500 MicroSyringe Pump

- ✓ Affordable
- ✓ Easy to Integrate
- ✓ Simple Manual Controls
- ✓ Rocker Switch controller for manual forward & reverse
- ✓ LED indicators for Dispense, Aspirate, Stop & Error
- ✓ Easy to use controller software
- ✓ Human readable ASCII command set
- ✓ Isolated, programmable Digital I/O
- ✓ Analog input for flow control
- ✓ Push Button stop controller

Introducing Model 500 MicroSyringe Pump, a robust, easy to integrate micropump. Hot swappable, manual controls and consistent flow rates are part of the multiple features of these affordable units.

Whether designing a new system, upgrading an existing system or use as a development tool, the Model 500 is an ideal choice for your low volume fluid delivery requirements.



Contact us today for additional information or to schedule a demo  
304-647-5855  
[johncwv@suddenlink.net](mailto:johncwv@suddenlink.net)

## Model 500 Syringe Specifications

Pump Type:	Single syringe, infuse and withdraw
Power:	24VDC, 1.5 Amp, 5%
Humidity:	20 to 80% RH, non-condensing
Operating Temperature:	0 to 40 °C
Storage Temperature:	-20 to 70 °C
Outline	
Length:	9.25 in.
Width:	3.25 in.
Depth:	3.75 in.
Mounting Depth:	0.875 in.
Motor type:	Bipolar stepping, 0.9° step angle, 0.67 Amp/phase max.
Motor control:	Micro-stepping with PWM current decay, 1/8 stepping
Drive Type:	Direct drive
Drive screw pitch:	40 threads/inch
Maximum force:	30 lb.
Still & limit detect:	non-contact (shaft encoder)
Accuracy:	± 0.4%
Precision:	± 0.1%
Step rate	
Maximum:	200 usec/step
Minimum:	6.7 sec/step
Pusher travel rate	
Maximum:	7.94 mm/sec
Minimum:	0.24 um/sec
Syringe size	
Maximum:	1 ml
Minimum:	0.5 ul
Flow Rate	
Maximum:	7.95 ml/min
Minimum:	3.57 nl/hr
Communications:	EIA-485 multi-drop network CAT 5 cables to 4000 ft. Up to 99 groups
HMI:	Human readable ASCII command set Sophisticated sequencing with external controller External inputs trigger events
Programmability:	Stand alone: 6 sequences w/ 8 steps each and looping
Analog Flow Control:	0 – 5 VDC, programmable maximum flow
Digital Inputs:	4 each, opto-isolated
Digital Outputs:	4 each, opto-isolated