

TOTALLY PUMPED...

AFFORDABLE VERSATILE SYRINGE PUMPS



SP1000

SP1600

SP1800

Our programmable syringe pumps are a low cost solution to a variety of dispensing applications. Perfect for animal dosing, electrospray, microdialysis, chemical mixing, microfluidics and more....

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SP1000 Single Syringe Pump

- Holds 1 syringe up to 60mL
- Infusion rates from 0.73 $\mu\text{L/hr}$ (1 mL syringe) to 2100 mL/hr (60mL syringe)
- Small - only 5 3/4" x 8 3/4"



SP1600 6-Syringe Pump

- Holds 2 to 6 syringes up to 60mL
- Infusion rates from 0.57 $\mu\text{L/hr}$ (1mL syringe) to 1337 mL/hr (60 mL syringe)
- Higher flow rate models available



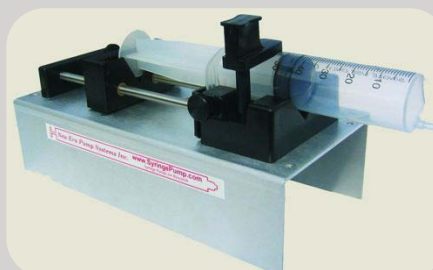
SP1800 8-Syringe Pump

- Holds 2 to 8 syringes up to 10mL
- Infusion rates from 0.57 $\mu\text{L/hr}$ (1mL syringe) to 380 mL/hr (10 cc syringe)
- Higher flow rate models available

Syringe Pump Features

- Easy-to-use keypad interface
- Space saving chassis
- Very easy to set up, just enter the syringe diameter, dispense rate, dispense volume, and press start
- Loaded with advanced functions and programming features
- Built for automation
- Operates stand-alone or from a computer
- Infusion and withdrawal by rate and/or volume
- Selectable pump rate units: $\mu\text{L/hr}$, $\mu\text{L/min}$, mL/hr, mL/min
- Purge mode for top speed infusion or withdrawal
- Stall detection
- Audible buzzer for alarm condition or program completion

- Program stored in non-volatile memory so the pump restores the same conditions as when the pump was turned off
- Programmable preset protocols
- Program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert timed delays, send logic signals to other equipment, respond to external signals, sound the buzzer
- RS-232 and TTL logic control interfaces
- Network, control, and monitor up to 100 pumps with one computer
- Worldwide power supplies available
- Motor stall detection
- Dispensing accuracy of $\pm 1\%$
- Unlimited lifetime technical support
- CE Certified
- Two year warranty



SP500 OEM Syringe Pump

The SP500 is the "guts" of the SP-1000, without the user interface. A "naked" screw-drive pump, it's ideal for your own instrument designs.

Our OEM Starter Kit for the SP500 includes a 12V power supply and a Pump-to-PC network cable so you can control this pump!

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