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▶ **Microprocessor-controlled syringe pumps for applications requiring high metering precision at low, pulse-free rates**

Sturdy and reliable, extremely simple to set up and use -- and surprisingly affordable. Liquid crystal displays (LCDs) prompt you through setup --

1. Select syringe from table stored in the pump's memory and displayed on the LCD.
2. Enter the volume to be dispensed.
3. Enter the flow rate, press "start." It's fast and simple.

Your settings are permanently stored in memory -- there's no need to re-enter them each day. SP pumps feature preset rate and volume control. Just set the volume you want dispensed. Volume is tracked continuously on the LCD display. Then, when the preset volume has been dispensed, the pump shuts off automatically. The easy-to-read digital display provides real-time readings using both parameters and values for clearer, mistake-free readings. The SP200 series pumps offer TTL and RS-232C interfaces and automatic shutoff under stall conditions.



SP100i

This inexpensive single-syringe infusion pump combines precision and simplicity with outstanding ease of use and durability.

- Holds any size syringe, 10 μ l to 50 ml
- Automatic volume control and shutoff
- Simple menu-driven setup: dispense volume, dispense flow rate, syringe diameter (selected from displayed table)
- Last settings stored in permanent memory
- Continuous dispense volume display



SP101i Microdialysis Pump

Developed especially for use in microdialysis experiments, these pump produces very fine syringe movement. The modified SP100i gearing features a six fold gear reduction compared to standard models, allowing pumping at much smaller flow rates. (See sensors such as ISO-NO and Micro-C for detection of dialysates.) The SP101i is a dual barrel infusion only pump.

- Holds two syringes, 10 μ l to 10 ml or (1) 60 mL

Minimum Step Rate	1 step/30 sec	1 step/30 sec
Accuracy	< 1% error	< 1% error
Reproducibility	± 0.1%	± 0.1%
Dimensions	9 x 6 x 5.5 in. 23 x 15 x 14 cm	9 x 6 x 5.5 in. 23 x 15 x 14 cm
Shipping Weight	7.5 lb (3.4 kg)	7.5 lb (3.4 kg)



SP120p Push Pull Pump

A second syringe mount has been added to the basic SP100i, with both syringes activated by a single pusher block for simultaneous infusion and withdrawal. This pump has all the features of the SP100i, plus:

- Holds two syringes, from 10 µl to 10 ml.

SP120p SPECIFICATIONS

Syringe Size	10 µl to 15 ml
Maximum Flow Rate (10 ml Syringe)	0.602 mL/min
Minimum Flow Rate (10 µL Syringe)	0.001 µL/min
Linear Force	20 lb (9 kg)
Advance Per Microstep	0.088 micron (1/2 step)
Maximum Step Rate (1/2-step)	400 steps/sec
Minimum Step Rate	1/2 step/30 sec
Accuracy	< 1% error
Reproducibility	± 0.1%
Dimensions	9 x 6 x 5.5 in. 23 x 15 x 14 cm
Shipping Weight	7.5 lb (3.4 kg)



SP200i

This feature-laden two-syringe infusion pump combines a broad speed range and holds a wide range of syringe sizes to meet the requirements of virtually any laboratory application.

- Holds two syringes, 10 to 140 ml
- Backlit LCD display
- Knob locks/unlocks drive block for effortless, drag-free adjustment
- Simple menu-driven setup: Syringe diameter (selected from displayed table), Dispense volume, Dispense flow rate Continuous dispense volume display
- Preset volume control and automatic shutoff
- Settings can be reviewed or changed during operation
- Optical encoder stall detection
- Choice of unit selection
- Last settings stored in permanent memory
- Built-in RS-232C interface for computer linking or "daisy chaining" up to 100 pumps.
- TTL interface for foot switch, timer, relay control; outputs for run indicator, valve control.

Accuracy	< 1% error	< 1% error
Reproducibility	± 0.1%	± 0.1%
Dimensions	11 x 9 x 5.5 in. 28 x 23 x 14 cm	11 x 9 x 5.5 in. 28 x 23 x 14 cm
Shipping Weight	12 lb (5.4 kg)	12 lb (5.4 kg)



SP210iw

The SP210iw offers you more advanced features than any other infusion/withdrawal pump in its price range--including five operating modes plus independent rate and volume settings for both infusion and withdrawal.

- All features of SP200i
- Independent rate and volume settings for infusion and withdrawal
- Multiple mode selection: infusion, withdrawal, infusion then withdrawal, withdrawal then infusion, or continuous cycle.

SP210iw SPECIFICATIONS

Mode	Infusion /Withdrawal
Syringe Size	10 µl to 140 ml (two)
Maximum Flow Rate (60 ml Syringe)	71 ml/min
Minimum Flow Rate	0.001 µl/hr
Linear Force	40 lb (18 kg)
Advance Per Microstep	0.165 micron
Maximum Step Rate (1/2-step)	1600 steps/sec
Minimum Step Rate	1 step/30 sec
Accuracy	< 1% error
Reproducibility	± 0.1%
Dimensions	11 x 9 x 5.5 in. 28 x 23 x 14 cm
Shipping Weight	12 lb (5.4 kg)



SP220i and SP230iw

Ideal for applications requiring multiple syringes, the SP220i and SP230iw are adaptations of the SP200i and SP210iw, respectively. Each has been modified to hold up to 10 syringes.

- SP220i has all features of SP200i
- SP230iw has all features of SP210iw
- Both have the same multiple syringe holder accommodating 10 syringes up to 10 ml, or 6 syringes up to 50 ml, or 4 syringes up to 140 ml.



SP250i

Features are the same as SP200i but can have four syringes of different sizes, from 10 μ l to 10 ml.



SP260p and SP210c

The SP210c and the SP260p can hold up to four syringes and can cycle continuously back and forth in a push-pull action. As two syringes are infusing, two other syringes are withdrawing at the same rate. The SP260p is used for single cycle applications only. The SP210c will automatically reverse direction upon reaching the set volume and begin the next cycle. With the use of 3-way valves the pump can empty and refill syringes for a continuous dispense.

- Knob locks/unlocks drive block for effortless, drag-free adjustment
- Simple menu-driven setup: Syringe diameter (selected from displayed table), Dispense volume, Dispense flow rate
- Continuous dispense volume display
- Preset volume control and automatic shutoff
- Settings can be reviewed or changed during operation
- Optical encoder stall detection
- Choice of unit selection
- Last settings stored in permanent memory
- Built-in RS-232C interface for computer linking or "daisy chaining" up to 100 pumps.
- TTL interface for foot switch, timer, relay control; outputs for run indicator, valve control



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