



WORLD
PRECISION
INSTRUMENTS
Instrumenting scientific ideas



AL-1000

Aladdin SyringeONE Programmable Syringe Pump



- Automatic dispensing of small volumes
- Very precise, reproducible flow rate control
- Displays total volume dispensed in mL or μL units
- Selectable infusion/withdrawal rate units (mL/hr, $\mu\text{L/hr}$, mL/min, $\mu\text{L/min}$)

- Infusion rate can be changed while pumping
- Program pump via keypad or from a computer
- Highly controllable – program sequences without a computer (holds up to 41 programming phases)
- Network, control, and monitor up to 100 pumps with one computer
- Hands-free operation with optional foot switch ADPT2
- Motor stall detection

Channels	1
Type	Infusion / Withdrawal
Flow Range	0.001 $\mu\text{L/hr}$ (0.5 mL syringe) to 3470 mL/hr (140 mL syringe)
Dispensing Accuracy	$\pm 1\%$
Syringe Sizes Accepted	0.5 μL to 60 mL or 140 mL partially filled
Linear Force	35 lb at low speed; 18 lb at maximum speed

To meet the demands of a busy lab Aladdin Pumps offer exceptional value providing versatility and reliability for accurately dispensing media down into the nanoliter range.

The Aladdin AL-1000 is a programmable single channel infusion / withdrawal syringe pump. It has a metal casing to provide stability, ensuring less vibration is transferred to the syringes. Setup is easy using the pumps keypad or via a computer with optional PC to pump cable (GN-PC7 or GN-PC25).

The Aladdin AL-1000 can run complex programs with up to 41 pumping phases can be set to change pumping rates; set dispensing volumes; insert pauses; control and respond to external signals; sound the buzzer. (For Linear/Gradient programs use AL-1000X)

Example flow rates

Syringe Size	Maximum Rate	Minimum Rate
0.5 μL	25.49 $\mu\text{L/hr}$	0.001 $\mu\text{L/hr}$
1 mL	52.86 mL/hr	0.727 $\mu\text{L/hr}$
3 mL	223.8 mL/hr	3.076 $\mu\text{L/hr}$
5 mL	372.5 mL/hr	5.119 $\mu\text{L/hr}$
10 mL	607.6 mL/hr	8.349 $\mu\text{L/hr}$
20 mL	966.2 mL/hr	13.28 $\mu\text{L/hr}$
30 mL	1260 mL/hr	17.32 $\mu\text{L/hr}$
60 mL	2120 mL/hr	29.1 $\mu\text{L/hr}$
140 mL	3470 mL/hr	47.7 $\mu\text{L/hr}$