LSP01-1C Syringe Pump



This pump is a two-syringe push-pull syringe pump. The acceptable syringes are from $10\mu L$ to 10m L. Suitable for high accuracy and small flow rate liquid continuously transferring.

Functions and Features

Syringe selection: The syringe can be selected in the manufacturer table which includes manufacturer, material and size or input the inner diameter of the syringe barrel directly

Easy to operate: Combining big screen LCD display with rotary encoder switch and membrane keypad makes the operation simple and prompt **Working mode:** Push-pull

Memory function:

- 1. The parameters are saved in EEPROM. The parameters don't need to be reset when power returns after an interruption
- 2. In flow rate mode, the pump remains running or stop according to the setting parameters when power returns after an interruption

Protection function: The pump will stall and give an alarm when the drive structure of the pump is blocked

Communication function: Realize computer control through RS485 communication interface

External control function: Input/output control

Calibration function: Acquire accurate volume through calibration **Syringe protection:** Adjust syringe rest to prevent syringe from damaging

Specifications

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Syringe size	10µL - 10mL		
Linear force	9kg		
Advance per mircostep	0.156µm (1/16step)		
Infusion volume per Microstep	0.026µL (10mL syring 1/16step)		
Max. step rate	6933 (1/16step) /sec		
Min. step rate	16 (1/16step) /30sec		
Max. linear rate	65mm/min		
Min. linear rate	5µm/min		
Flow rates	0.831nL/min - 10.84mL/min		
Accuracy	\leq 0.5% error in the condition o \geq 30% of max. Infusion distance		
Operating mode	Rotary coded switch and membrane keypad		
Display	128×64 graphic LCD		
Power	AC100-240V		
Operating condition	Temperature 5℃- 40℃ Relative humidity <80%		
Dimensions	280×220×140 (mm) (L×W×H)		
Weight	3.6kg		

Syringe Pump	Part Number	Syringe	Inner Diameter (mm)	Flow Rates	Linear Rate	Weight (kg)
LSP01 - 1C	0503421	10µL	0.46	0.049µL/hr - 10.80µL/min	5µm/min - 65mm/min	
		1mL	4.61	5.007µL/hr - 1085µL/min		3.6
		2.5mL	7.28	12.49µL/hr - 2706µL/min		
		5mL	10.30	25.00µL/hr - 5415µL/min		
		10mL	14.57	50.02µL/hr - 10833µL/min		

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37