LSP01-1C Syringe Pump

This pump is a two-syringe push-pull syringe pump. The acceptable syringe specification is from 10μL to 10mL. 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

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	≤±0.5% error in the condition of ≥30% of max. Infusion distance
Setting 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)
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	3.6
		1mL	4.61	5.007μL/hr - 1085μL/min		
		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		

Note: Flow rates = Linear rate × Section area of the barrel

Tel: 86 - 312 - 3110087 Fax: 86 - 312 - 3168553 Internet www.longerpump.com E - mail:longer@longerpump.com