

Basic Syringe Pump



SPLab02-LU



Introduction

The syringe pump with infusion/withdrawal mode. Online flow rate modification function: the pump is running, without stopping, adjust the flow rate at any time to meet complex application. stainless steel body, and large-screen chromatic LCD is easy to operate. It can install and fix different types of injectors or syringes in the same time, and it is suitable for transferring micro flow rates with high precision (non-medical).

Technical Specifications

Syringe	Inside Diameter (mm)	Flow Rate(uL/min-mL/min)	
		ISPLab01/ISPLab02	ISPLab04/ISPLab12
1mL	4.70	0.0174-2.29	0.0174-2.29
2mL	9.70	0.0739-9.755	0.0739-9.755
5mL	12.48	0.1223-16.147	0.1223-16.147
10mL	15.89	0.1983-26.177	0.1983-26.177
20mL	20.00	0.3142-41.469	-----
30mL	22.50	0.3976-52.484	-----
50mL	28.90	0.6560-86.588	-----
100mL	32.00	0.8042-106.154	-----
150mL	40.00	1.2566-165.871	-----

Technical Specifications

Working mode	Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous, additional mode (infusion/withdrawal, then exclude bubble)						
Channel number	1	2	4	6	8	10	12
Syringe size	10uL-150mL			10uL-10mL			
Syringe selection	Syringe size and customized diameter			2			
Linear speed range	5μm/min-132mm/min(Flow rate=Linear speed* syringe inner cut area)						
Min. linear rate	5μm/min						
Linear force	≤25kgf						
Max. stroke	140mm						
Stoke resolution	0.078μm/μstep						
Accuracy	Error ≤±0.5% (Stoke ≥30% of maximum stroke)						
Display mode	320*240TFT-LCD						
Control method	Rotary encoded switch and imported membrane keypad						
Power-off memory	Display the previous data parameter after power supply again						
External control	Active switch signal: 5V						
Communication interface	RS485, Modbus protocol(RTU mode)						
Power supply	AC 220V±10%(standard), AC 110V±10%(option)						
Condition temperature	0-40°C						
Relative humidity	<80%						
IP rate	IP31						

Dimension Drawing (Unit: mm)

