Laboratorial Syringe Pump

LSP01-3A, LSP02-2B

LSP01-3A

LSP02-2B

- Mainly used in Lab applications.
- Excellent EMC performance, ESD≥Level IV (IEC 61000-4-2)

Specifications \ Model	LSP01-3A	LSP02-2B
Work mode	Infusion	Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous
Channel	1	2
Stroke of pump	140mm	
Pusher advance per microstep	0.156μm	
Linear speed	5μm/min-65mm/min	5μm/min-130mm/min(Flow rate=Linear speed * Section area of the barrel)
Linear speed resolution	5μm/min	
Linear travel accuracy	≤±0.5% when travel≥30% of pump stroke	
Linear force(max.)	>90N	>180N
Syringe selection	Built-in syringe branches, sizes and IDs for selection	
Syringe user-defined	Can store four user-defined syringe IDs	
Flow rate calibration	Improve flow rate accuracy	
Running parameters setting	Infusion volume, infusion time, etc	Infusion/Withdrawal volume, infusion time, withdrawal time, pause time, etc
Display setting	Display volume, flow rate or linear speed	
Power-off memory	Storing the running parameters automatically	
Status signal output	2 output signals (OC gate signal) to indicate start/stop and direction	
Control signal input	Falling edge or TTL signal to control Start/stop	
Communication interface	RS485	
Dimensions (L×W×H)	280×210×140 (mm)	280×250×140 (mm)
Weight	3.6kg	4.3kg
Power supply	AC 196V-240V/20W	AC 196V-240V/40W
Operating temperature	0 to 40°C	
Relative humidity	<80%	

Controller Model (Product Code)		LSP01-3A (05.03.40B)	LSP02-2B (05.03.44B)
Syringe	Syringe ID(mm)	Flow Rate(μL/min - mL/min)	
10μL	0.50	0.001μL/min-0.0128mL/min	0.001μL/min-0.0255mL/min
25μL	0.80	0.0025μL/min-0.0327mL/min	0.0025μL/min-0.0653mL/min
50μL	1.10	0.0048μL/min-0.0618mL/min	0.0048μL/min-0.1235mL/min
100μL	1.60	0.0101μL/min-0.1307mL/min	0.0101μL/min-0.2614mL/min
250μL	2.30	0.0208μL/min-0.2701mL/min	0.0208μL/min-0.5401mL/min
500μL	3.25	0.0415μL/min-0.5392mL/min	0.0415μL/min-1.0784mL/min
1mL	4.72	0.0875μL/min-1.1373mL/min	0.0875μL/min-2.2747mL/min
2mL	9.00	0.3181μL/min-4.1351mL/min	0.3181μL/min-8.2702mL/min
5mL	13.10	0.6739μL/min-8.7608mL/min	0.6739μL/min-17.522mL/min
10mL	16.60	1.0821μL/min-14.068mL/min	1.0821μL/min-28.135mL/min
20mL	19.00	1.4176μL/min-18.429mL/min	1.4176μL/min-36.859mL/min
30mL	23.00	2.0774μL/min-27.006mL/min	2.0774μL/min-54.012mL/min
60mL	29.14	3.3346μL/min-43.349mL/min	3.3346μL/min-86.699mL/min

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