Digital Split-type Syringe Pump

dLSP 501S/ dLSP 501L

500

1000

3.25

4.61



- Remote pump drive unit with compact structure and small footprint, ideal for hand-held or clamping devices
- High precision and pulseless delivery, suitable for small liquid volume transfer and handling
- 7 inch touch screen with intuitive graphic interface for fantastic interactive experience
- Dedicated PC software for parameter programming, enabling complex flow profiles for four drive units

5.2651nL/min-1579.543uL/min

10.5936nL/min-3178.092uL/min

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Product model	Drive unit		dLSP 501S		dLSP 501L	
	Controller	dLSP uC				
Work mode		Infusion only, withdrawal only, infusion/withdrawal, withdrawal/infusion, programming (on PC software)				
Display		7 inch HD LCD				
Control mode	Touch screen controller	Control 1-4 separated drive units with preset parameters through touch screen controller				
	PLC/ Computer	RS485 communication interface, Modbus RTU, 1 group consists of up to 8 drive units, 1 computer can independently control up to 5 groups				
Stroke of the drive unit		70mm				
Pusher advance per microstep			0.095um/ustep 0.099um/ustep			
Linear speed		0.60	0.6096um/min-182.88mm/min 0.635um/min-190.5mm/min		0.635um/min-190.5mm/min	
Linear speed resolution			0.6096um/min 0.635um/min			
Linear travel accuracy		≤±0.35% (when travel≥30% of the stroke)				
Linear travel CV		0.03% (rated travel)				
Linear force (Rated)		15N (t	the force can be set 20%-100%)		30N (the force can be set 20%-100%)	
Syringe		0.5uL-250uL (built-in manufacturer, or user-defined)	0.5uL-10	000uL (built-in manufacturer, or user-defined)	
Flow rate calibrate		Calibrat	Calibrate the user-defined syringe for better flow rate /dispensing volume accuracy and precision			
Parameter method		Up to 100 parameter methods can be stored on the controller and can be imported/exported to USB flash drive				
Programming function		Parameter configured based on work flow on PC software: infusion, withdrawal, delay, repeat, up to 16 steps				
Screen lock		Prevent misoperation				
User access control		Three levels of user access (administrator, developer, operator), each user can have an exclusive password				
Log record		Record the pump operation history, and can be exported to a USB flash drive				
Electronic signature		There are electronic signature on the log record for FDA 21CFR Part11 compliance				
Pump state when power up		The default state is stop, can be set to continue to run through communication commands				
Fast forward/backward		Infuse or withdraw liquid at full speed				
Controller dimensions (L X W X H)		187mm*123mm*39mm				
Controller weight		0.6kg				
Drive unit dimensions (L X W X H)		1)	170mm*35mm*58mm		180mm*45mm*74mm	
Drive unit weight			0.31kg		0.51kg	
Power Supply		AC 90V-260V/10W				
Product model			dLSP 501S		dLSP 501L	
Syringe (u	L) Sy	ringe ID(mm)	Flov	w rate fo	rreference	
0.5		0.10	0.0048nL/min-1.435uL/min		0.0050nL/min-1.495uL/min	
1		0.15	0.0108nL/min-3.230uL/min		0.0112nL/min-3.365uL/min	
2		0.20	0.0191nL/min-5.742uL/min		0.0199nL/min-5.982uL/min	
5		0.35	0.0586nL/min-17.586uL/min		0.0611nL/min-18.319uL/min	
		0.50	0.1196nL/min-35.890uL/min		0.1246nL/min-37.386uL/min	
		0.80	0.3063nL/min-91.879uL/min		0.3190nL/min-95.707uL/min	
		1.10	0.5790nL/min-173.709uL/min		0.6032nL/min-180.946uL/min	
100		1.46	1.0200nL/min-306.014uL/min		1.0625nL/min-318.765uL/min	
250		2.30	2.5315nL/min-759.437uL/min		2.6369nL/min-791.080uL/min	