Laboratorial Syringe Pump

ASP100 Series Digital Syringe Pump



- Experience unmatched ease of use with a highresolution color LCD and an intuitive fulltouchscreen interface.
- Delivering liquids with exceptional accuracy and a pulseless flow, perfect for handling small volumes
- Fine-tune the flow rate in real time, optimizing the pump parameters even while in operation.
- Provided with ready-to-use Labview drivers and demos for streamlined automation and effortless integration with other lab equipment.



Product Model		ASP12-XB			
Work mode		Single infuse, multiple infuse, single withdraw, infuse/withdraw(continuous), withdraw/infuse(continuous)			
Number of syringes		4 (with 4-channel Rack)	6 (with 6-channel Rack)	8 (with 8-channel Rack)	10 (with 10-channel Rack)
Syringe options		0.5μL-10mL			
Flow rate for reference		3.3pL/min-39mL/min			
Stroke		140mm			
Pusher advance per microstep		0.0326μm/microstep			
Linear speed		0.416μm/min-180mm/min			
Linear speed resolution		0.416μm/min			
Linear travel accuracy		≦±0.35% (when travel≧30% of stroke)			
Linear travel CV		CV≦0.03% (when travel≧30% of stroke)			
Linear force (max.)		320N(can be set 20%-100%)			
Built-in syringe		Common syringe brands and models on the market			
User-defined syringe		Store 20 user-defined syringes: travel≤140mm, 6.2mm≤0D≤20mm			
Calibration		Improve flow rate/volume precision and accuracy by calibrating the user-defined syringe			
Display		4.3 inch LCD for parameters and pump status, Chinese / English			
Parameter method		20 parameter methods can be stored and easily recalled			
Control mode		Touchscreen control, external control, communication control, footswitch control, Labview control			
External control		Two control inputs: switch signals or level signals for start/stop and emergency stop Two status outputs: can be configured as start/stop, direction or fault alarm			
Communication control		RS485, Modbus RTU or Longer OEM protocol			
Real-time adjustment		The flow rate can be adjusted while the pump is running			
Audible alert		Beep sound can indicate keypad clicks, near end of run, end of run, and fault alarm			
Indicator light		Green-running, Blue-standby, Red-Warning			
Screen lock		The touchscreen can be locked to prevent misoperation			
Vertical display		The display will rotate 90 degrees to support vertical operation.			
Pump status when power up		Stop			
Fast forward/backward		Infuse or withdraw at full speed			
EMC		NB CE/UKCA certified			
Dimensions (LxWxH)		280mm×223mm×160mm 280mm×263mm×160mm 280mm×270mm×160mm 280mm×315mm×160mm			
Power supply for adapter		AC 90V-260V			
Power supply for pump		DC24V/15W			
Temperature		0 - 40°C			
Humidity		≤80%RH, No condensation			
Weight		4.65kg	4.85kg	4.95kg	5.15kg
Syringe	Syringe ID (r				
0.5μL	0.10	0.0033nL/min-0.0014mL/min			
5μL	0.35	0.040nL/min-0.0173mL/min			
10μL	0.46	0.0691nL/min-0.0353mL/min			
25μL	0.80	0.2090nL/min-0.0904mL/min			
50μL	1.10	0.3951nL/min-0.1710mL/min			
100μL	1.60	0.8360nL/min-0.3617mL/min			
250μL	2.30	1.7275nL/min-0.7475mL/min			
500μL	3.25	3.4493nL/min-1.4925mL/min			
1mL 4.72					
		7.2752nL/min-3.1479mL/min			
10mL 16.60		89.987nL/min-38.937mL/min			

Tel: +86-312-3110087 Fax:+86-312-3168553 Internet:www.longerpump.com Email:longer@longerpump.com