

○ Typical Applications

Electrospinning	Capillary Electrophoresis	Catalyzer
Microfluidics/Microfluidic Chips	Drug Discovery	Neuroscience
Animal experiment	Cell Injections	Organic Synthesis
Toxicology Studies	Microcapsule	Nutrition science



○ Technical Spec

Product Model	ASP11-1A	ASP11-1AP	ASP11-2AP	ASP12-1B	ASP12-2B	ASP12-XB
Work mode	Single infuse, multiple infuse			Single infuse, multiple infuse, single withdraw, infuse/withdraw(Continuous), withdraw/infuse(Continuous)		
Number of syringes	1	1	2	1	2	4,6,8,10 (based on the selected multi-rack)
Syringe options	0.5μL-60mL			0.5μL-150mL		0.5μL-10mL
Flow rate for reference	3.3pL/min-120.0mL/min	0.9pL/min-23.6mL/min		3.3pL/min-226.0mL/min		3.3pL/min-39mL/min
Stroke	110mm			140mm		
Pusher advance per microstep	0.0326μm/microstep	0.0088μm/microstep		0.0326μm/microstep		
Linear speed	0.416μm/min-180mm/min	0.1126μm/min-35.4mm/min		0.416μm/min-180mm/min		
Linear travel accuracy	≤ ±0.35% (When travel ≥30% of stroke)					
Linear force (Max.)	320N(Can be set 20%-100%)					
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					
Dimensions (L×W×H)	240mm×180mm×137mm			280mm×212mm×160mm		L: 280mm; H: 160mm; W: 223mm-315mm
Power supply	AC 90V-260V/15W	AC 90V-260V/10W		AC 90V-260V/15W		
Operating temperature	0 - 40℃					
Relative humidity	≤ 80%RH, no condensation					
Weight	2.8kg	2.9kg	2.85kg	3.65kg	3.65kg	4.65kg-5.15kg

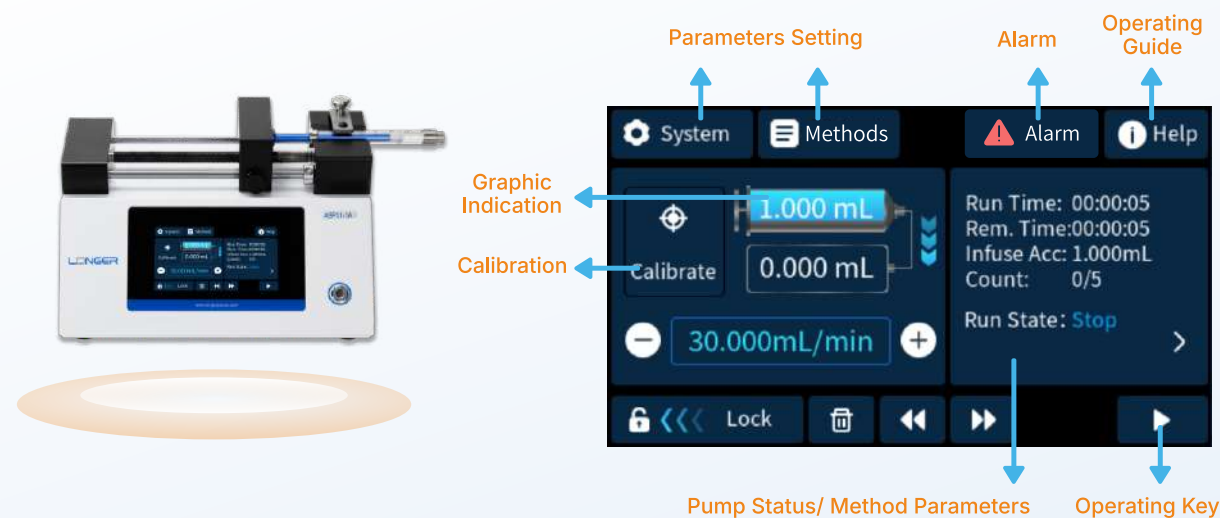
**LONGER**  
A Halma company



ASP100 Series Digital Syringe Pump

- Experience unmatched ease of use with a high-resolution color LCD and an intuitive full-touchscreen 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.

## 01 High-resolution LCD touchscreen, easy-to-use.



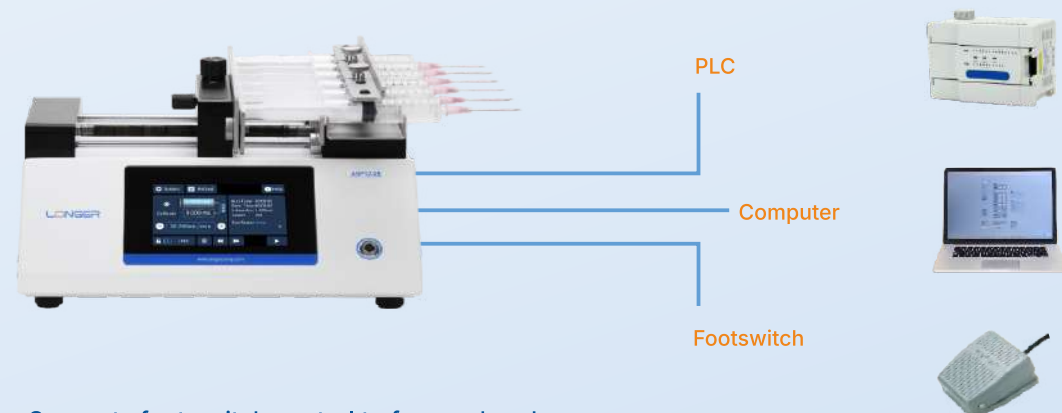
- ▶ Intuitive graphic interface for fantastic interactive experiences.
- ▶ Visual display of various pump status, alarms, operating guides for quickly configuration and operation.

## 02 Small size, big linear force, can securely hold 0.5uL to 150mL syringes.

- ▶ Adjustable linear force up to 320N ensures the optimal force is applied for different syringe sizes.
- ▶ The sturdy and easy-to-use syringe holder can accommodate syringes up to 150mL (Depending on pump model).



## 03 Pump can be controlled via external signals or communication commands for easy system setup.



- ▶ Supports foot switch control to free up hands.
- ▶ External signal control function enables other controllers to start and stop the pump.
- ▶ Communication control function enables other controllers to configure parameters and operate the pump via communication commands.

## 04 The ASP100 series can be placed on its side to reduce the footprint by 50%, perfect for limited bench space.



Vertical Orientation Display Rotates 90°  
Save 50% footprint

## 05

The flow rate can be adjusted while the pump is running, optimizing the parameters in real-time and reducing the cost.

The flow rate can be set or fine-tuned while the pump is running.



The beep sound, indicator light and text prompts support the users through the operation process.

## 06



- ▶ Beep sound can indicate keypad clicks, near end of run, end of run, and fault alarm.
- ▶ Light indicates the power-on, standby, running, warning status.
- ▶ Text prompts indicate the pump status and guide the operating procedure.