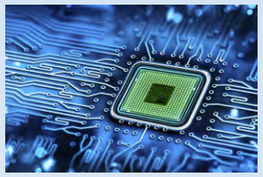
Typical Applications

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
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
Syringe options	0.5μL-60mL			0.5μL-150mL	
Flow rate for reference	3.3pL/min-120.0mL/min	0.9pL/min-29.5mL/min		3.3pL/min-226.0mL/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	
Power supply	AC 90V-260V/15W	AC 90V-260V/10W		AC 90V-260V/20W	
Operating temperature	0 - 40°C				
Relative humidity	≤ 80%RH, no condensation				
Weight	2.8kg	2.9kg	2.85kg	3.65kg	3.65kg

Longer Precision Pump Co., Ltd.

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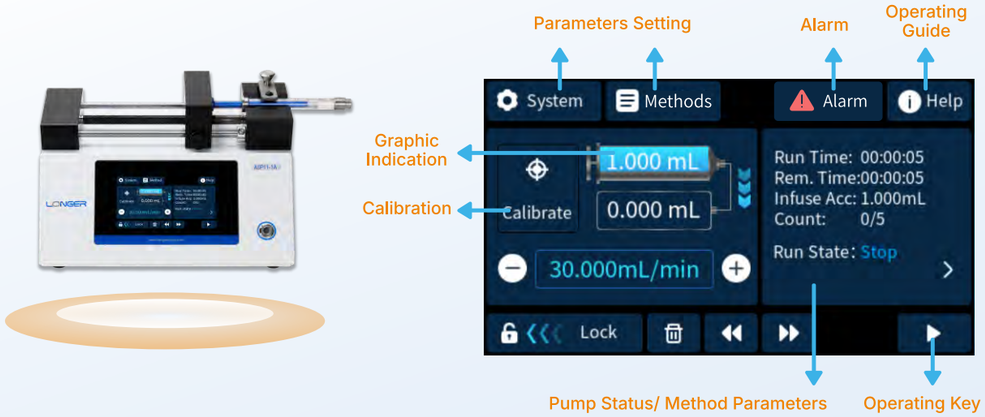
LONGER
A Halma company

CE UKCA

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.

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

Green-Running Blue-Standby Red-Warning

- 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.