

Split Type Syringe Pump

SPC



Introduction

7 inch touch screen control, display 8 pump units working parameters and working state. Friendly interface, easy operation. Split type design, mainly for laboratory.

Features

Online flow rate modification function: Can adjust the flow rate during the pump is running;

Two working mode: Independent working mode, each unit working independently, can infuse or withdraw with different speed in same time or different time. Logic working mode, each unit working with time relationship, with different proportion infuse or withdraw. Users can choose each unit to be independent or logic working mode;

Intelligent calibration, ensure infuse volume accuracy. Online micro adjusting function, convenient to adjust the volume of one units, decrease volume error;

Real time monitor, animate diaply monitor result. Controller can receive traffic alarm of each unit;

Back distance setting, can exclude bubbles inside syringe, improve volume accuracy;

Fast forward and backward function used for loading syringe, washing and unlock traffic protection.

Interface Display

Speed display

0.00 rpm

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Unit1: Independent

Working mode: Infuse-withdraw

Syringe manufacturer: Air_Tite

Syringe: 2.5cc

Back distance: 30

Effective unit Logic steps Fast forward/backward Common mode Communication settings

Logic Independent

Display area for dynamic working

Display area for setting parameter

Function setting area changeable by touching

Technical Specifications

Working mode(Five)	Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion
Pump unit	1-8 optional
Syringe size	ZU-I: 0.5μL-60mL; ZU-I-G1: 250μL-25mL; ZU-I-G2: 50mL
Syringe selection	Available of the mainly manufacturer, type and syringe from, also can define syringe ID in same time
Linear speed range	1μm/min-132mm/min(Flow rate=Linear speed* syringe inner cut area)
Min. linear rate	1μm/min
Linear force	≥16Kgf
Max. stroke	90mm
Stoke resolution	0.078μm/μstep
Accuracy	Stroke≥30% maximum stroke,Error≤ ±0.5%
Back distance	0.01-5mm
Working mode	Independent working mode
Stored modes	5 group data of each running mode
Display	Industrial grade 7"LCD color display
Control method	Touch screen
Power-off memory	Display the previous data parameter after power supply again
External control signal	Start/stop signal,active switch signal (5-24V universal), All start/stop signal, passive switch signal, such as foot pedal switch
Communication interface	RS232/RS485, Modbus protocol(RTU mode)
Controller Power supply	DC5V/10W
Pump unit power supply	DC24V/30W
Condition temperature	0-40°C
Relative humidity	<80%
IP rate	IP31
Controller dimension	240×221×111 (mm)
Controller weight	2.0kg
Pump unit dimension	257×110×131 (mm)
Pump unit weight	3.0kg

Dimension Drawing (Unit:mm)

