Industrial Syringe Pump

SP30-1A









Introduction

SP30-1A is a compact OEM syringe pump, which is programmable and reliable for industrial automation application. It can be controlled through RS232/RS485 communication. It can use different size syringes for high precision fluid transferring, diluting and dispensing. Mainly used in equipment or instrument supporting.

Features

1.Unmatched application flexibility:Fully programmable;Can be controlled by an external computer or microprocessor;Available with a range of syringe sizes and valve configurations.

Faster product development: Can speed up and simplify validation of your instruments;

- 2.Robust performance: optical encoder for step loss detection; full control of start speed, top speed and cut-off speeds; Programmable ramp-up and ramp-down rates;
- 3.Straight forward integration: RS232/RS485 communication interfaces; Up to fifteen SP30-1A pumps can be connected together; Two digital inputs and three outputs for TTL level signals; Used for synchronization with external devices. Planned maintenance replacement of valves and syringes.

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Technical Specifications

Accuracy	Free < +0.10/(strate > 200/ maximum strate)
Accuracy	Error ≤±0.1%(stroke≥30%maximum stroke)
Plunger drive	Stepper motor driven lead screw with optical encoder for step loss detection and home flag
Max. stroke(Steps)	30mm(3000 steps or 24000 steps)
Linear speed range	0.005mm/s-30mm/s
Run time per stroke	1.2s-100min
Speed resolution	0.005mm/s
Stroke resolution	0.01mm or 0.00125mm
Valve switch time	≤ 250 ms between adjacent ports
Valves type	3-port 120°(Standard)
Valve material	Valve body: PCTFE
	Valve element: PTFE
Tubing fittings	1/4"-28 or M6
Syringe fittings	1/4"-28
Syringes	50μL,100μL,250μL,500μL,1.0mL,2.5mL,5.0mL
Syringe material	Barrel material: Borosilicate glass
	Plunger rod material: Stainless steel
	Plunger seal material: PTFE
Power supply	DC24V±10%/2.0A(Peak value)
Communication interface	RS232/RS485/CAN
Baud rate	9600 or 38400
Addressing	UP to 15 individual addresses available(BCD switch)
Input	Two TTL level signal inputs, for restart the paused instruct
Output	Three TTL level signal outputs, for synchronous external devices
Condition temperature	15°C-40°C
Storage temperature	-20°C -65°C
Max. pressure	0.68Mpa
Dimension(mm)	139.2*44.5*127 (mm)
Weight	1.8kg

Dimension Drawing (Unit:mm)

Unit:mm



