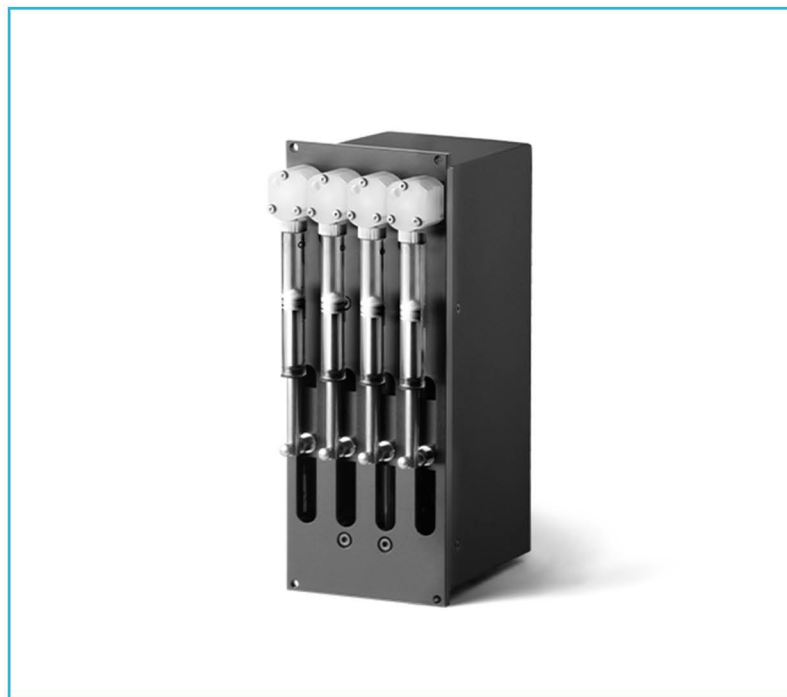


## INDUSTRIAL SYRINGE PUMP

SP60-4A



### Introduction

SP60-nA is a programmable liquid handling device. The rated stroke is 60mm, and multichannel can be working at same time which can be controlled by an external computer or microprocessor to realize automated pipetting, dilution and dispensing functions.

### Features

- 1.Flexible:This syringe pump is programmable and it can be controlled by external controller; Suitable syringes range is 50uL ~ 10mL.
- 2.Reliable:Uses photoelectric sensor for lost-step detection; Configures speed and acceleration; Reads the number of syringe and valve movements, enabling planned maintenance.
- 3.Simple integration method:Supports RS232/RS485 communication; Connect up to 15 SP60-nA syringe pumps simultaneously; TTL level digital signal: two input and three outputs; Can be synchronized with other external devices.

## Technical Specifications

Rated stroke	60mm			
Resolution	Standard Mode: 6000 steps per stroke			
	Micro Step Mode: 48000 steps per stroke			
Running time per stroke	1.45s-100min			
Syringe model	50uL, 100uL, 250uL, 500uL, 1mL, 2.5mL, 5mL, 10mL			
Syringe material	Barrel Material: High borosilicate glass			
	Push rod material: Stainless steel			
	Sealing material of push rod: PTFE			
Liquid Volume Precision	Repeatability error <0.2% (full stroke, deionized water)			
Liquid Volume Accuracy	Error <1.0% (full stroke, deionized water)			
Syringe interface	1/4-28UNF external thread			
Storage Temperature	-20°C~65°C			
Directional valve switching time	≤450ms ms between adjacent ports			
Type of reversing valve	3 way 120°			
Valve material	Valve body: PCTFE    Valve core: PTFE			
Valve interface	1/4-28UNF internal thread			
Liquid path Max. pressure	0.68MPa			
Applicable power supply	DC24V±10%/5A (Peak)			
Communication interface	RS232/RS485			
Baud rate	9600bps or 38400bps			
Device address	BCD DIP switch (Up to 15 independent addresses can be set)			
Signal input	2 channels TTL level input			
Signal output	3 channels TTL level output			
Working temperature	15°C~40°C			
Number of channel	2	4	6	8
Product dimension drawing:mm)	65x153x254	130x153x254	163x153x254	196x153x254