

## Industrial Syringe Pump SP60-8B



### Introduction

It is a programmable, open-architecture, precision liquid handling unit, which is controlled by external computer or microprocessor to realize automatic pipetting, dilution and dispensing functions.

### Features

1. Simultaneous processing multiple liquids;
2. Photoelectric encoder detects of step;
3. Controllable start speed, maximum speed and stop speed;
4. Programmable acceleration and deceleration slopes;
5. Can realize planned maintenance and replacement of syringes.

**Technical Specifications**

Accuracy	Error $\leq \pm 0.1\%$ (stroke $\geq 30\%$ maximum stroke)				
Max. stroke(Steps)	60mm(6000 steps or 48000 steps)				
Linear speed range	0.01mm/s-60mm/s				
Run time per stroke	1.25s-100min				
Speed resolution	0.01mm/s				
Stroke resolution	0.01mm or 0.00125mm				
Valve switch time	$\leq 250$ ms between adjacent ports				
Valves type	Electromagnetic valve				
Valve material	Valve body: PEEK, Diaphragm: FKM, Sealing ring: FKM				
Tubing fittings	1/4-28UNF				
Syringe fittings	1/4-28UNF				
Power supply	DC24V $\pm 10\%$ /2.5A(Peak value)				
Communication interface	RS232/RS485/CAN				
Syringes	50 $\mu$ L, 100 $\mu$ L, 250 $\mu$ L, 500 $\mu$ L, 1.0mL, 2.5mL, 5.0m				
Syringe material	Barrel material: Borosilicate glass; Plunger rod material: Stainless steel; Plunger seal material: PTFE				
Baud rate	9600 or 38400(RS232/RS485); 100K, 125K, 250K, 500K, 1M(CAN)				
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				
Valve body rated pressure	0.2MPa				
Condition temperature	15 $^{\circ}$ C~40 $^{\circ}$ C(Low temperature operation requires a low temperature syringe)				
Storage temperature	-20 $^{\circ}$ C~65 $^{\circ}$ C				
Relative humidity	<80% (RH)				
Channel number	2	3	4	6	8
Dimension(L*W*H)	125*94*263	126*94*263	125.5*112*252	154*133*252	196*140.5*252

**Dimension Drawing (Unit:mm)**

