

Industrial Syringe Pump

SP60-4B



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

Channel number	4
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	≤ 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 μ L, 100 μ L, 250 μ L, 500 μ L, 1.0mL, 2.5mL, 5.0mL
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)
Dimension(L*W*H)	125.5*112*252

Dimension Drawing (Unit:mm)

