

Industrial Multi-Channel Syringe Pump

SP4-D1, SP4-E1



SYRINGE PUMP

- Mainly used in OEM equipment and instruments, especially for automation systems.
- Four channels synchronously running, high strength housing, panel or soleplate installation, RS485 or RS232 communication control.

Specifications	Model	SP4-D1	SP4-E1
Accuracy		≤1% (rated stroke)	
Precision		Repeatability ≤0.5% (rated stroke)	
Rated stroke (steps)		60mm (1000 steps)	
Linear speed		0.03mm/s-24mm/s	
Time for rated stroke		2.5s-2000s	
Control resolution		0.06mm (1 step)	
Transmission mechanism		Synchronous belt mechanism	
Plunger drive force (max.)		≥68N for four channels	
Syringe		50μL, 100μL, 250μL, 500μL, 1mL, 2.5mL, 5mL	
Valve		No	3-way solenoid valve
Valve plug turn time		-	≤100ms
Wetted material		Borosilicate glass, PTFE, PPS	Borosilicate glass, PTFE, PEEK
Max. pressure		0.68 MPa (valve)	0.1MPa
Tubing fitting		1/4"-28 thread	
Syringe fitting		1/4"-28 thread	
Signal input		2 input signals (TTL signal, drive current >16mA) to restart the pump after pause	
Signal output		3 output signals (OC gate signal) to indicate the working status	
External Solenoid valve control		Can control 4 pcs of independent 24VDC solenoid valve. The rated drive signal for each valve is DC24V/200mA	With built-in solenoid valve
Communication interface		RS485 or RS232	
Bit rate		9600bps or 38400bps	
Pump ID setting		Set the pump ID through BCD dial switch	
Pump parameters setting		Set the parameters through DIP switch	
Dimension (L×W×H)		140×167×261.5 (mm)	
Power supply		DC 24V/1.5A	
Operating temperature		15 to 40°C	
Relative humidity		<80%	
Weight		2.4kg	