Laboratorial Syringe Pump

L0107 Series

Mainly used in laboratorial applications. Controller and drive unit are separated. The drive unit has syringe holder and clamp.







Specifications \ Model	TJ-1A/L0107-1A	TS-1A/L0107-1A, TS-1A-B/L0107-1A	TJ-2A/L0107-2A	TS-2A/L0107-2A, TS-2A-B/L0107-2A
Work mode	Infusion		Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous	
Drive unit	1	1 to 4	1	1 to 4
Stroke of drive unit	70mm			
Pusher advance per microstep	0.165μm			
Linear speed	7.94μm/min-79.4mm/min (Flow rate=Linear speed * Section area of the barrel)			
Linear speed resolution	7.94μm/min			
Linear travel accuracy	≤±0.5% when travel ≥30% of drive unit stroke			
Linear force(max.)	＞20N			
Syringe selection	Built-in syringe branches, sizes and IDs for selection			
Syringe user-defined	Can store four user-defined syringe IDs			
Flow rate calibration	Improve flow rate accuracy			
Running parameters setting	Parameters, such as dispensing volume, can be set by each channel. Or all channels use the parameters of the specified channel			
Start setting	Each drive unit can be started separately, simultaneously or according to each delay time			
Display setting	Display volume, flow rate or linear speed			
Power-off memory	Select keeping previous status or resetting parameters when powered on			
Fast forward/backward	Infuse or withdraw liquid at full speed			
status signal output	2 output signals (OC gate signal) to indicate start/stop and direction			
Control signal input	3 input signals (TTL signal) to control start/stop, fast forward and fast backward			
Communication interface	RS485			
Controller dimensions (L×W×H)	170×108×65 (mm)	235×178×74 (mm)	170×108×65 (mm)	235×178×74 (mm)
Controller weight	0.5kg	0.8kg	0.5kg	0.8kg
Drive unit dimensions (L×W×H)	180×46×78 (mm)			
Drive unit weight	0.6kg			
Power supply	AC 90V-260V/10W	AC 90V-260V/40W	AC 90V-260V/10W	AC 90V-260V/40W
Operating temperature	0 to 40℃			
Relative humidity	＜80%			

Controller Model(Product code, Language) /Drive Unit Model(Product code)	Syringe (μL)	Syringe Id(mm)	Flow Rate(nL/min-μL/min)
TJ-1A(05.03.10A, Chinese and English)/L0107-1A(05.03.00A) TJ-2A(05.03.11A, Chinese and English)/L0107-2A(05.03.01A) TS-1A(05.03.15A, Chinese)/L0107-1A(05.03.00A) TS-1A-B(05.03.15B, English)/L0107-1A(05.03.00A) TS-2A(05.03.16A, Chinese)/L0107-2A(05.03.01A) TS-2A-B(05.03.16B, English)/L0107-2A(05.03.01A)	5	0.35	0.764-7.64
	10	0.50	1.559-15.59
	25	0.80	3.991-39.91
	50	1.10	7.546-75.46
	100	1.60	15.96-159.6
	250	2.30	32.99-329.9
	500	3.25	65.87-658.7
	1000	4.61	132.5-1325

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