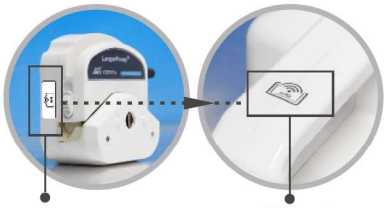
LONGER
PRECISION FLUID TRANSFER

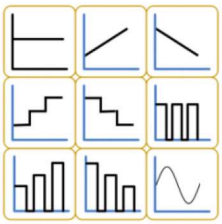
Intelligent Peristaltic Pump L100-1FS/L300-1FS/L600-1FS

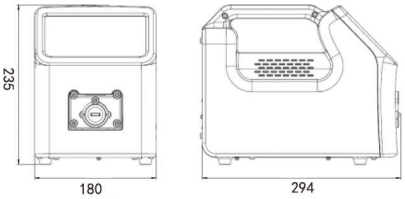


- Automatic identification of pump head and tubing, simplify the operation process and provide reliable guarantee for high-precision fluid transferring
- 7 inch color display, full touch screen and intuitive graphic interface, provide easy-to-use operations
- Customize parameters by modular programming, and the parameter programs can be stored and easily recalled
- Multiple function modules and intelligent algorithms are designed for a wide variety of applications, including routine and multi-step complex applications



Automatic identification of pump head and tubing


Running Control Module




Upgrade the pump software through PC

	L100-1FS	L300-1FS	L600-1FS
Speed	0.1-100rpm, CW/CCW	0.1-300rpm, CW/CCW	0.1-600rpm, CW/CCW
Speed resolution	0.1rpm	0.1rpm resolution when speed <100rpm, 1rpm resolution when speed >=100rpm	
Flow rate	0.15uL/min-500ml/min	0.15uL/min-1500mL/min	0.15uL/min-3000mL/min
Dispensing volume	0.1mL-9999L(accuracy of ±2% with calibration)		
Calibration	Improve the flow rate and dispensing volume accuracy.		
Display	7Inch 1024*600 color LCD		
Language	Chinese or English, set as needed		
Control mode	Touch screen control, footswitch control, external signal control and communication control		
Work mode	Programming		
Programming function	Running control module: constant, ramp up/down, stepped up/down, sine, constant dispensing, ramp up/down dispensing. Logic contol module: direction, delay, event trigger, status output, pause, jump, loop, stop Configure multi-step program with multiple modules for complex application		
External control	Start/stop control, direction control: voltage level signal or switch signal(dry contact) Speed control: 0-5V, 0-10V, 4-20mA or 0-10kHz with uniform interface, max speed can be set.		
Communication control	USB or RS485(RJ11) interface, Modbus protocol, multiple baud rate (1200/ 2400/ 4800/ 9600/ 19200/ 38400bps)		
Status output	Output voltage level signals to indicate pump running status, direction status, and other custom status.		
Parameter programs	7 parameter programs can be stored and easily recalled		
Delayed start	Pump can start running at desired time		
Back suction	Antidrip through setting back suction angle and delay time for high dispensing accuracy		
Dispensing volume setting range	0.001uL-9999L		
Interval time setting range	0.5s-9000s		
Dispensing cycle setting range	1-99999(0 for unlimited)		
Dispensing time setting range	0.5s-9000s (0s for continuous transfer without time limit)		
Delay time setting range	0.5s-9000s		
Prime	Fast filling and emptying at full speed		
EMC	Comply with EMC Directive 2014/30/EU		
Dimension (L×W×H)	180mm×294mm×235(mm)		
Power supply	L100-1FS-A/L300-1FS-A: AC220V±20%, 50Hz/60Hz L100-1FS-B/L300-1FS-B: AC110V±20%, 50Hz/60Hz		AC100V-240V, 50Hz/60Hz
Condition	Operating temperature: 0°C-40°C Relative humidity: <80%		
IP rating	IP31		
Weight	5.0kg		

Pump Head	Tubing	Max Flow Rate Reference (mL/min)			Weight(kg)
		L100-1FS	L300-1FS	L600-1FS	
YZ1515x,YZII15	13#, 14#, 19#, 16#, 25#, 17#, 18#	380	1100	2200	5.4
YZ2515x	15#, 24#	266	800	1600	5.4
YZII25	15#, 24#, 35#, 36#	500	1500	3000	5.4
FG15-13	13#, 14#, 19#, 16#, 25#, 17#, 18#	430	1200	2400	5.3
FG25-13	15#, 24#	270	1100	2200	5.3
DMD15-13-B	2×13#,2×14#,2×19#,2×16#,2×25#	375	1035	2070	5.4
BZ15-13-A	14#	22	75	150	5.3
BZ15-13-B	16#	80	230	460	5.3
BZ15-13-C	25#	150	480	960	5.3
BZ15-13-D	17#	270	800	1600	5.3
BZ25-13-B	24#	250	800	1600	5.3
DG15-24	16#, 25#, 17#	300(Single Channel)	900(Single Channel)	1800(Single Channel)	5.8
DG15-28	13#, 14#, ID≤3.17mm,Wall thickness:0.8-1mm	75(Single Channe, speed<=100rpm)			5.7
DG-(1,2,4,6,8)6 rollers	ID≤3.17mm, Wall thickness:0.8-1mm	48(Single Channe, speed<=100rpm)			5.2-5.6
DG-(1,2,4)10 rollers	ID≤3.17mm, Wall thickness:0.8-1mm	32(Single Channe, speed<=100rpm)			5.2-5.4

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