

Lab & Medical Equipment



Peristaltic Pumps & Accessories

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Standard Peristaltic Pump SPP Series



Features:

- * LED display.
- * Support RS485 / MODBUS communication protocol, analog control (0-5V, 0-10V, 4-20mA...) foot switch control.
- * Program control.
- * Memory function——data will be stored in time after power off.
- * Full speed function——one button to control full speed operation, used for quick cleaning, filling and emptying tubes, etc.

Technical Parameters:

Model	SPP-BT100M	SPP-BT300M	SPP-BT600M
Pump Head	YZ1515x, YZ2515x, DG series(only SPP-BT100M)		
Speed Range	0.1-100rpm(Reversible)	0.1-300rpm(Reversible)	0.1-600rpm(Reversible)
Speed Resolution	0.1rpm		
Flow Range	0.0015-380ml/min	0.007-1140ml/min	0.007-2280ml/min
Filling Precision	<±0.5%		
Display	4-LED display		
Back Suction Speed	10~100rpm	10~300rpm	
Optional Accessory	Foot switch		
Environmental Conditions	Temperature: 0 ~ 40 ℃; Humidity: < 80%, no condensation		
Consumption	22W	35W	50W
Power Supply	AC110/220V±10%, 50/60Hz		
Instrument Size(W*D*H)	234*154*143mm		254*184*150mm
Package Size(W*D*H)	393*243*243mm		403*283*253mm
Gross Weight	5.15kg		5.8kg

Pump Head:



Pump Parameters:

Standard Peristaltic Pump SPP Series		Model	SPP-BT100M	SPP-BT300M	SPP-BT600M
		Speed Range	0.1-100rpm (Reversible)	0.1-300rpm (Reversible)	0.1-600rpm (Reversible)
		Tubing			
Pump Head& Single channel flow	YZ1515x	13#,14#,19#, 16#,25#,17#,18#	0.007-380ml/min	0.007-1140ml/min	0.007-2280ml/min
	YZ2515x	15#,24#	0.17-290ml/min	0.17-870ml/min	0.17-1740ml/min
	2*YZ1515x	13#,14#,19#, 16#,25#,17#,18#	0.007-380ml/min	0.007-1140ml/min	0.007-2280ml/min
	2*YZ2515x	15#,24#	0.17-290ml/min	0.17-870ml/min	0.17-1740ml/min
	DG-1(6)	0.5*0.8, 1*1, 2*1, 2.4*0.8, 3*1	0.002~36ml/min	/	/
	DG-1(10)		0.0015~27ml/min	/	/
	DG-2(6)		0.002~36ml/min	/	/
	DG-2(10)		0.0015~27ml/min	/	/
	DG-4(6)		0.002~36ml/min	/	/
	DG-4(10)		0.0015~27ml/min	/	/

Intelligent Flow Rate Peristaltic Pump FPP Series



Features:

- * Storage function——user data storage function:(9 sets of filling data) , support RS485/MODBUS communication protocol, analog control ((0-5V, 0-10V, 4-20mA...).
- * External control function——Multiple mode selection: communication mode, analog mode, foot switch control.Provide customized services.
- * Memory function——data will be stored in time after power off.
- * Calibration function——intelligent flow calibration: after setting the target flow, input the actual flow value, and the system will automatically carry out flow calibration to ensure the flow accuracy.
- * Full speed function——one button to control full speed operation, used for quick cleaning, filling and emptying tubes, etc
- * Suckback function——By setting Suckback angle and Suckback speed to prevent liquid dripping and ensure fluid accuracy.
- * Lock screen function——lock screen design, error proof touch, application more secure.
- * LCD touch screen, real-time display of operation status and working parameters.
- * Whole housing design-stainless steel housing, sturdy and durable , multi-face seamless whole housing design, Long service life, high cost performance.

Technical Parameters:

Model	FPP-BT100LC	FPP-BT300LC	FPP-BT600LC
Pump Head	YZ1515x, YZ2515x, DG series(only FPP-BT100LC)		
Speed Range	0.1-100rpm(Reversible)	0.1-300rpm(Reversible)	0.1-600rpm(Reversible)
Speed Resolution	0.1rpm		
Flow Range	0.0015-380ml/min	0.007-1140ml/min	0.007-2280ml/min
Filling Precision	<±0.5%		
Display	LCD		
Back Suction Angle	10°~720°		
Back Suction Speed	10~100rpm	10~300rpm	
Optional Accessory	Foot switch		
Environmental Conditions	Temperature: 0 ~ 40 ℃; Humidity: < 80%, no condensation		
Consumption	22W	35W	50W
Power Supply	AC110/220V±10%, 50/60Hz		
Instrument Size(W*D*H)	212*140*240mm		
Package Size(W*D*H)	363*253*353mm		
Gross Weight	6kg		6.9kg

Pump Head:



YZ1515X



DG Series



YZ2515X

Pump Parameters:

Standard Peristaltic Pump SPP Series		Model	FPP-BT100LC	FPP-BT300LC	FPP-BT600LC
		Speed Range	0.1-100rpm	0.1-300rpm	0.1-600rpm
		Tubing	(Reversible)	(Reversible)	(Reversible)
Pump Head& Single channel flow	YZ1515x	13#,14#,19#, 16#,25#,17#,18#	0.007-380ml/min	0.007-1140ml/min	0.007-2280ml/min
	YZ2515x	15#,24#	0.17-290ml/min	0.17-870ml/min	0.17-1740ml/min
	2*YZ1515x	13#,14#,19#, 16#,25#,17#,18#	0.007-380ml/min	0.007-1140ml/min	0.007-2280ml/min
	2*YZ2515x	15#,24#	0.17-290ml/min	0.17-870ml/min	0.17-1740ml/min
	DG-1(6)	0.5*0.8, 1*1, 2*1,	0.002~36ml/min	/	/
	DG-1(10)		0.0015~27ml/min	/	/
	DG-2(6)		0.002~36ml/min	/	/
	DG-2(10)		0.0015~27ml/min	/	/
	DG-4(6)	2.4*0.8, 3*1	0.002~36ml/min	/	/
	DG-4(10)		0.0015~27ml/min	/	/

Dispensing Peristaltic Pump DPP Series



Features:

- * Storage function— —user data storage function:(9 sets of filling data) , support RS485/MODBUS communication protocol, analog control ((0-5V, 0-10V, 4-20mA...).
- * External control function— —Multiple mode selection: communication mode, analog mode, foot switch control.Provide customized services.
- * Memory function— —data will be stored in time after power off.
- * Calibration function— —intelligent flow calibration: after setting the target flow, input the actual flow value, and the system will automatically carry out flow calibration to sure the flow accuracy.
- * Full speed function— —one button to control full speed operation, used for quick cleaning, filling and emptying tubes, etc
- * Suckback function— —By setting Suckback angle and Suckback speed to prevent liquid dripping and ensure fluid accuracy.
- * Lock screen function— —lock screen design, error proof touch, application more secure.
- * LCD touch screen, real-time display of operation status and working parameters.
- * Whole housing design-stainless steel housing, sturdy and durable , multi-face seamless whole housing design, Long service life, high cost performance.

Technical Parameters:

Model	DPP-BT100FC	DPP-BT300FC	DPP-BT600FC
Pump Head	YZ1515x, YZ2515x, DG series(only DPP-BT100FC)		
Speed Range	0.1-100rpm(Reversible)	0.1-300rpm(Reversible)	0.1-600rpm(Reversible)
Speed Resolution	0.1rpm		
Flow Range	0.0015-380ml/min	0.007-1140ml/min	0.007-2280ml/min
Filling Precision	<±0.5%		
Display	LCD		
Back Suction Angle	10°~720°		
Back Suction Speed	10~100rpm	10~300rpm	
Optional Accessory	Foot switch		
Environmental Conditions	Temperature: 0 ~ 40 ℃; Humidity: < 80%, no condensation		
Consumption	22W	35W	50W
Power Supply	AC110/220V±10%, 50/60Hz		
Instrument Size(W*D*H)	212*140*240mm		
Package Size(W*D*H)	363*253*353mm		
Gross Weight	6kg		6.9kg

Pump Head:



YZ1515X



DG Series



YZ2515X

Pump Parameters:

Standard Peristaltic Pump SPP Series		Model	DPP-BT100FC	DPP-BT300FC	DPP-BT600FC
		Speed Range	0.1-100rpm	0.1-300rpm	0.1-600rpm
		Tubing	(Reversible)	(Reversible)	(Reversible)
Pump Head& Single channel flow	YZ1515x	13#,14#,19#, 16#,25#,17#,18#	0.007-380ml/min	0.007-1140ml/min	0.007-2280ml/min
	YZ2515x	15#,24#	0.17-290ml/min	0.17-870ml/min	0.17-1740ml/min
	2*YZ1515x	13#,14#,19#, 16#,25#,17#,18#	0.007-380ml/min	0.007-1140ml/min	0.007-2280ml/min
	2*YZ2515x	15#,24#	0.17-290ml/min	0.17-870ml/min	0.17-1740ml/min
	DG-1(6)	0.5*0.8, 1*1, 2*1,	0.002~36ml/min	/	/
	DG-1(10)		0.0015~27ml/min	/	/
	DG-2(6)		0.002~36ml/min	/	/
	DG-2(10)		0.0015~27ml/min	/	/
	DG-4(6)	2.4*0.8, 3*1	0.002~36ml/min	/	/
	DG-4(10)		0.0015~27ml/min	/	/

Dispensing Peristaltic Pump DPP-BT-F Series

Features:

- * True color LCD display, touch screen and button operation;
- * LF-touch-OS software system, efficient and stable, with good human-computer interaction mode, convenient product customization and upgrade;
- * With liquid allocation, time allocation, copy allocation of three working modes;
- * Pre-store five groups of assignment parameters for various working modes;
- * Motor precise rotation Angle control technology reduces the traditional time control distribution mode due to motor slow start and other factors
- * The distribution error caused by;
- * With start-stop, positive and negative rotation, full speed, speed regulation, state memory and other basic functions;
- * Speed resolution of 0.1rpm;
- * Flow display, flow control, fluid accumulation;
- * With flow correction function;
- * Peristaltic pump expert system for maximum user convenience;
- * Intelligent temperature control function to minimize the noise of peristaltic pump;
- * External high& low-level control start and stop, positive and negative, simple packing, optical coupling isolation; External control analog quantity to adjust the speed;
- * RS485 communication, compatible with Modbus protocol, convenient to connect with various control devices;
- * The internal structure adopts double-layer isolation design, and the circuit board is sprayed with three-proof paint process to achieve dustproof and moisture-proof effect;
- * Strong anti-interference characteristics, wide voltage design, suitable for complex power supply environment;
- * The driver shell is made of ABS engineering plastic, streamline design, beautiful and practical;
- * Multiple pump heads can be installed for different combination of pump heads and drivers;
- * The function of distributing filling can be realized through the external pedal switch to control the start and stop



Technical Parameters

Model	DPP-BT101F	DPP-BT301F	DPP-BT601F
Flow Range	0.0001~720ml/min	0.006~1690ml/min	0.006~2900ml/min
Rotation Range	0.1~150rpm	0.1~350rpm	0.1~600rpm
Speed Resolution	0.1rpm		
Dispensed Liquid Volume Range	0.05ml~9999l		
Dispensed Frequency Range	1 to 999 times, "0" means infinite loop		
Dispensed Interval Time	0.1~999.9 seconds/minute/hour, time unit is adjustable		
Speed Accuracy	<±0.2%		
Power Supply	AC100~240V, 50Hz/60Hz		
Power	<30W	<40W	<50W
External Control Interface	External control input level 5V, 12V (standard), 24V (optional);		
Communication Interface	external control analog 0-5V (standard), 0-10V, 4-20mA (optional) RS485 communication, compatible with Modbus protocol		
Working Environment	Ambient temperature 0~40℃, relative humidity <80%		
Protection Level	IP31		
Overall Dimensions (L*W*H)	261*180*197mm		
Drive Weight	4.5kg	4.7kg	4.9kg
Packing Size	430*290*320mm		
Gross Weight	8kg		

Pump Head:



DG type



DT type



YZ15/YZ25



YT15/YT25

Applicable Pump Head, Hose& Flow Parameters

Driver Model	Applicable pump head	Number of channels	Applicable hose	Single channel flow rate (ml/min)
FPP-BT101F	DG (6 Scroll wheel)	1、 2、 4	Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~49
	DG (10 Scroll wheel)	1、 2、 4	Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0001~41
	DT10-18	1	13#14#, Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~82
	DT10-28	2	13#14#, Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~82
	YZ15	1	13#14#19#16#25#17#	0.006~420
	YZ25	1	15#24#	0.16~420
	YT15	1	13#14#19#16#25#17#18#	0.006~570
FPP-BT301F	YT25	1	15#24#35#36#	0.17~720
	YZ15	1	13#14#19#16#25#17#	0.006~990
	YZ25	1	15#24#	0.16~990
	YT15	1	13#14#19#16#25#17#18#	0.006~1300
FPP-BT601F	YT25	1	15#24#35#36#	0.16~1690
	YZ15	1	13#14#19#16#25#17#	0.006~1700
	YZ25	1	15#24#	0.16~1700
	YT15	1	13#14#19#16#25#17#18#	0.006~2300
FPP-BT601F	YT25	1	15#24#35#36#	0.16~2900

Flow Rate Peristaltic Pump FPP-BT-L Series

Features:

- * True color LCD screen display, touch screen plus button operation;
- * LF-Touch-OS software system;
- * It has basic functions such as start and stop, forward and reverse, full speed, speed regulation, state memory, etc.;
- * Rotational speed resolution is 0.1 rpm;
- * Flow display, flow control, liquid volume accumulation;
- * With flow correction function;
- * Unique "simple sub-assembly" function to realize repeated timing and quantitative transmission, eliminating the need for time controllers;
- * Peristaltic pump expert system, which is convenient for users to the greatest extent;
- * Intelligent temperature control function, minimize the noise of the peristaltic pump, 45 decibels ultra-quiet design;
- * External control high and low-level control start and stop, positive and negative, simple subassembly, optocoupler isolation; external control analog quantity adjusts the speed;
- * RS485 communication, compatible with Modbus protocol, convenient to connect with various control equipment;
- * The internal structure adopts a double-layer isolation design, and the circuit board is sprayed with three anti-paint technology to achieve the effect of dust and moisture;
- * Super anti-interference characteristics, wide voltage design, suitable for complex power supply environment;
- * The drive housing material is made of ABS engineering plastics, streamlined design, simple and beautiful;
- * A variety of pump heads can be installed to achieve different combinations of pump heads and drivers.



Technical Parameters

Model	FPP-BT101L	FPP-BT301L	FPP-BT601L
Flow Range	0.0001~720ml/min	0.006~1690ml/min	0.006~2900ml/min
Rotation Range	0.1~150rpm	0.1~350rpm	0.1~600rpm
Speed Resolution	0.1rpm		
Speed Accuracy	<±0.2%		
Power Supply	AC100~240V, 50Hz/60Hz		
Power	<30W	<40W	<50W
External Control Interface	External control input level 5V, 12V (standard), 24V (optional); external control analog 0-5V (standard), 0-10V, 4-20mA (optional)		
Communication Interface	RS485 communication, compatible with Modbus protocol		
Working Environment	Ambient temperature 0~40℃, relative humidity <80%		
Protection Level	IP31		
Overall Dimensions (L*W*H)	261*180*197mm		
Drive Weight	4.5kg	4.7kg	4.9kg
Packing Size	430*290*320mm		
Gross Weight	8kg		

Pump Head:



DG type



DT type



YZ15/YZ25



YT15/YT25

Applicable Pump Head, Hose& Flow Parameters

Driver Model	Applicable pump head	Number of channels	Applicable hose	Single channel flow rate (ml/min)
FPP-BT101L	DG (6 Scroll wheel)	1、 2、 4	Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~49
	DG (10 Scroll wheel)	1、 2、 4	Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0001~41
	DT10-18	1	13#14#, Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~82
	DT10-28	2	13#14#, Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~82
	YZ15	1	13#14#19#16#25#17#	0.006~420
	YZ25	1	15#24#	0.16~420
	YT15	1	13#14#19#16#25#17#18#	0.006~570
FPP-BT301L	YT25	1	15#24#35#36#	0.17~720
	YZ15	1	13#14#19#16#25#17#	0.006~990
	YZ25	1	15#24#	0.16~990
	YT15	1	13#14#19#16#25#17#18#	0.006~1300
FPP-BT601L	YT25	1	15#24#35#36#	0.16~1690
	YZ15	1	13#14#19#16#25#17#	0.006~1700
	YZ25	1	15#24#	0.16~1700
	YT15	1	13#14#19#16#25#17#18#	0.006~2300
	YT25	1	15#24#35#36#	0.16~2900

Standard Peristaltic Pump SPP-BT-S Series

Features:

- * 4-digit LED digital tube displays the speed and working mode;
- * LF-LED-OS software system;
- * LED indicator shows the working status of positive and negative, internal control, external control, foot switch, etc.;
- * Toggle switch and knob are combined for operation;
- * It has basic functions such as start and stop, forward and reverse, full speed, speed regulation, state memory, etc.;
- * Simple dispensing control, realizing the function of repeatedly transferring quantitative liquids;
- * Streamlined plastic shell design, simple and stylish;
- * Large torque output, different pump heads can be installed to realize multi-channel and driver combination;
- * The internal structure adopts a double-layer isolation design, and the circuit board is sprayed with three anti-paint technology to achieve the effect of dust and moisture;
- * Super anti-interference characteristics, wide voltage design, suitable for complex power supply environment;
- * External control high and low-level control start and stop, positive and negative, simple subassembly, optocoupler isolation; external control analog quantity adjusts the speed;
- * RS485 communication, support Modbus protocol, convenient to connect with various control equipment;
- * It can be equipped with foot switch, pulse dampener, leak detector and other optional accessories.



Technical Parameters

Model	SPP-BT101S	SPP-BT301S	SPP-BT601S
IFlow Range	0.0001~720ml/min	0.006~1690ml/min	0.006~2900ml/min
Rotation Range	0.1~150rpm	0.1~350rpm	0.1~600rpm
Speed Resolution	0.1~100rpm: 0.1rpm; 100~600rpm: 1rpm		
Speed Accuracy	<±0.5%		
Power Supply	AC100~240V, 50Hz/60Hz		
Power	<30W	<40W	<50W
External Control Interface	External control input level 5V, 12V (standard), 24V (optional); external control analog 0-5V (standard), 0-10V, 4-20mA (optional)		
Communication Interface	RS485 communication, compatible with Modbus protocol		
Working Environment	Ambient temperature 0~40℃, relative humidity <80%		
Protection Level	IP31		
Overall Dimensions (L*W*H)	261*180*197mm		
Drive Weight	4.5kg	4.7kg	4.9kg
Packing Size	430*290*320mm		
Gross Weight	8kg		

Pump Head:



DG type



DT type



YZ15/YZ25



YT15/YT25

Applicable Pump Head, Hose& Flow Parameters

Driver Model	Applicable pump head	Number of channels	Applicable hose	Single channel flow rate (ml/min)
SPP-BT101S	DG (6 Scroll wheel)	1、 2、 4	Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~49
	DG (10 Scroll wheel)	1、 2、 4	Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0001~41
	DT10-18	1	13#14#, Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~82
	DT10-28	2	13#14#, Wall thickness 0.8~1mm, Inner diameter≤3.17mm	0.0002~82
	YZ15	1	13#14#19#16#25#17#	0.006~420
	YZ25	1	15#24#	0.16~420
	YT15	1	13#14#19#16#25#17#18#	0.006~570
SPP-BT301S	YT25	1	15#24#35#36#	0.17~720
	YZ15	1	13#14#19#16#25#17#	0.006~990
	YZ25	1	15#24#	0.16~990
	YT15	1	13#14#19#16#25#17#18#	0.006~1300
SPP-BT601S	YT25	1	15#24#35#36#	0.16~1690
	YZ15	1	13#14#19#16#25#17#	0.006~1700
	YZ25	1	15#24#	0.16~1700
	YT15	1	13#14#19#16#25#17#18#	0.006~2300
SPP-BT601S	YT25	1	15#24#35#36#	0.16~2900