

Peristaltic Pump

PP-Z400 PH-Z1460



Application

- It is used for precise filling and mechanical matching of small and medium doses of various liquids, such as pharmaceutical, food, chemical, biological, laboratory, environmental engineering and other industries; the most prominent feature of LK series products is their high linearity and stable flow ; Good flow repeatability, the tube is not easy to run out of the pump head and the tube is forced, and the reliability is high.

Using tubing and flow range

Tubing	Tubing size ID*wall mm	Flow (mL/min) (0.1-400rpm)
13#	0.8*1.6	0.0063-25.2
14#	1.6*1.6	0.022-88
19#	2.4*1.6	0.051-204
16#	3.2*1.6	0.084-336
25#	4.8*1.6	0.171-684
17#	6.4*1.6	0.281-1124
18#	7.9*1.6	0.365-1460

Specifications

Model		Drive Model: PP-Z400		Pump head model: PH-Z1460			
RPM	0.1-400rpm	Dispensing time	0.1-999.9S	Using tubing	13#、14#、19#、16#、25#、17#、18#		
Speed resolution	0.1rpm(≤100rpm);1rpm(>100rpm)	Dispensing volume	15μL-9999L	Flow range	0.0063-1460mL/min		
Filling volume resolution	0.001-0.01mL(Different according to the tubing)	Times	0-9999 (0 Infinite loop)	Tubing wall	1.6mm	Roller seal	Yes
Repeat error	±0.5%	Intervals	0.1-999.9s	Pressure adjust	No	Factory pressure	0.15Mpa
Retention error	100rpm , 1% within 68 hours(Filling special tube)	Suction angle	0-720°	Shell material	PPS		
Display	LCD screen (3.5 inch)	Protectionlevel	IP31	Roller material	SS		
Operation	Membrane keypad +Digital control knob	Power	≤45W	Roller No.	4		
Working environment	Temperature, 0℃ to 40℃; Relative humidity < 80%	Weight	6.8kg	Product No.	02021503		
External speed control	0-5V (optional)、 0-10V (optional)、 4-20mA (standard), 0-10K (standard)						
Type of external control	Start /stop, Direction change TTL 5V (standard), TTL 12V (optional), TTL 24V (optional)						
Port output	DC12V Power Output; DC5V TTL Output (optional)						
Communication Interface	RS232, RS485 (Start/stop, Direction change, speed control)						
Power supply	AC220V±10%, 50Hz/60Hz(standard); AC110V±10%, 50Hz/60Hz; AC380V±10%, 50Hz/60Hz(optional)						

Characteristics



3.5-inch 320*240 high-brightness LCD display, all operating parameters are displayed on the same screen, the operation is simple and easy to understand.

Adopt "dual CPU" control, drive and control separation, fast operation speed, stable operation, high transmission accuracy, accurate one-key filling function, repeatability up to $\pm 0.5\%$. It has the functions of automatic flow correction, sound reminder, stepless speed regulation, start-stop, reversing and other functions. It is equipped with a full-speed button and has fast filling and emptying functions. It has two working modes: distribution mode and transmission mode; three distribution modes: flow distribution, time distribution and copy distribution; the suction angle can be set arbitrarily within 720° .



Abundant external control functions are available. For example, the DC12V output is convenient for direct connection to a variety of sensors, capacitive sensors, liquid level sensors, photoelectric sensors, etc.; the product hardware reserves a variety of circuit interfaces to meet the special customization needs of customers.

A stepping motor is used to control the rotation speed, which is not affected by the load change, high torque, low power consumption, and strong adaptability.

The driving circuit has excellent performance, good heat dissipation, low working noise, stable operation, and power-down memory function. The internal circuits are all three-proof treatment, anti-interference, wide voltage design, suitable for complex power supply environment.



Products have handles and are easy to carry; various pump heads can be installed.

High flow linearity (linearity refers to the degree of agreement between the linear relationship between speed and flow)

Widen scroll wheel, high fault tolerance.

The product has the dust-proof function of the roller, which improves the overall life of the product.



Independent clamping device, the clamping does not depend on the arc, the position of the tubing does not change when the arc is removed, and the flow repeatability is good; and this clamping device can greatly reduce running tube, ban the possibility of tube.

The product is compact in structure and small in size, which is convenient for mechanical supporting applications; the arc can be disassembled, which is easy to clean the inside of the pump head.

The stuck tube device can adapt to 7 types of tubings: 13#, 14#, 19#, 16#, 25#, 17#, 18#.

Support multiple pump heads in series; four rollers to reduce pulsation.

Peristaltic Pump

PP-Z400 PH-Z1880



Application

- It is used for precise filling and mechanical matching of small and medium doses of various liquids, such as pharmaceutical, food, chemical, biological, laboratory, environmental engineering and other industries; the most prominent feature of LK series products is their high linearity and stable flow ; Good flow repeatability, the tube is not easy to run out of the pump head and the tube is forced, and the reliability is high.

Using tubing and flow range

Tubing	Tubing size ID*wall mm	Flow (mL/min) (0.1-400rpm)
15#	4.8*2.4	0.169-676
24#	6.4*2.4	0.254-1016
35#	7.9*2.4	0.37-1480
36#	9.6*2.4	0.47-1880

Specifications

Model		Drive Model: PP-Z400		Pump head model: PH-Z1880			
RPM	0.1-400rpm	Dispensing time	0.1-999.9S	Using tubing	15#、24#、35#、36#		
Speed Resolution	0.1rpm(≤100rpm);1rpm(>100rpm)	Dispensing volume	400μL-9999L	Flow range	0.169-1880mL/min		
Filling Volume resolution	0.001-0.01mL(Different according to the tubing)	Times	0-9999 (0 Infinite loop)	Tubing wall	2.4mm	Roller seal	Yes
Repeat Error	±0.5%	Intervals	0.1-999.9s	Pressure adjust	No	Factory pressure	0.15Mpa
Retention Error	100rpm, 1% within 68 hours(Filling special tube)	Suction angle	0-720°	Shell material	PPS		
Display	LCD screen (3.5 inch)	Protection level	IP31	Roller material	SS		
Operation	Membrane keypad +Digital control knob	Power	≤45W	Roller No.	4		
Working Environment	Temperature, 0℃ to 40℃; Relative humidity < 80%	Weight	6.8kg	Product No.	02022503		
External Speed control	0-5V (optional)、0-10V (optional)、4-20mA (standard), 0-10K (standard)						
Type Of external control	Start /stop, Direction change 【TTL 5V (standard), TTL 12V (optional), TTL 24V (optional)						
Port Output	DC12V Power Output; DC5V TTL Output (optional)						
Communication Interface	RS232, RS485 (Start/stop, Direction change, speed control)						
Power Supply	AC220V±10%, 50Hz/60Hz(standard); AC110V±10%, 50Hz/60Hz; AC380V±10%, 50Hz/60Hz(optional)						
Package Dimension	390*340*280						
(W*D*H)(mm)							
G.W.(kg)	8						

Characteristics



3.5-inch 320*240 high-brightness LCD display, all operating parameters are displayed on the same screen, the operation is simple and easy to understand.

Adopt "dual CPU" control, drive and control separation, fast operation speed, stable operation, high transmission accuracy, accurate one-key filling function, repeatability up to $\pm 0.5\%$. It has the functions of automatic flow correction, sound reminder, stepless speed regulation, start-stop, reversing and other functions. It is equipped with a full-speed button and has fast filling and emptying functions. It has two working modes: distribution mode and transmission mode; three distribution modes: flow distribution, time distribution and copy distribution; the suction angle can be set arbitrarily within 720°.



Abundant external control functions are available. For example, the DC12V output is convenient for direct connection to a variety of sensors, capacitive sensors, liquid level sensors, photoelectric sensors, etc.; the product hardware reserves a variety of circuit interfaces to meet the special customization needs of customers.

A stepping motor is used to control the rotation speed, which is not affected by the load change, high torque, low power consumption, and strong adaptability.

The driving circuit has excellent performance, good heat dissipation, low working noise, stable operation, and power-down memory function. The internal circuits are all three-proof treatment, anti-interference, wide voltage design, suitable for complex power supply environment.



Products have handles and are easy to carry; various pump heads can be installed.

High flow linearity (linearity refers to the degree of agreement between the linear relationship between speed and flow)

Widen scroll wheel, high fault tolerance.

Support multiple pump heads in series; four rollers to reduce pulsation.

The main body is made of polyphenylene sulfide (PPS) material, which is resistant to high temperature and chemical corrosion (especially excellent in resistance to strong chemical corrosion such as organic solvents), stable size, accurate flow and long-term high-load movement.

The roller device is made of 304 stainless steel, which is durable.



The product has the dust-proof function of the roller, which improves the overall life of the product.

Independent clamping device, the clamping does not depend on the arc, the position of the tubing does not change when the arc is removed, and the flow repeatability is good; and this clamping device can greatly reduce running tube, ban the possibility of tube.

The product is compact in structure and small in size, which is convenient for mechanical supporting applications; the arc can be disassembled, which is easy to clean the inside of the pump head.

The stuck tube device can adapt to 4 types of tubings: 15#, 24#, 35#, 36#.

All gaskets are made of PTFE gaskets, which are anti-aging and corrosion-resistant, and prolong the service life of the pump head.