

## BT100L Intelligent flow peristaltic pump

BT100L Intelligent peristaltic pump flow range: 0.00016-570 ml/min. It adopts color LCD displaying and touch screen technology. Easy operation interface is intuitive and clear. This pump is mainly applicable to the accurate transmission control; It also display, control flow rate and accumulate dispensing volume as the users requirements. Meanwhile, it realizes repeated timing quantitative transmission. Suitable for precise metering and dosing, highest precision can amount to 0.5%, in order to reduce unnecessary peristaltic pump noise, it adopts the intelligent temperature control technology. RS485 interface, as adopting the MODBUS communication protocol, the pump is easier to be connected with other equipments, such as computer, human machine interface and PLC.



### Function and Feature:

- Color LCD displaying, touch screen and keypad for operating
- Reversible direction, start/stop and full speed, state memory (power-down memory).
- Speed resolution is above 0.1rpm.
- Display and control flow rate, accumulate dispensing volume automatically.
- Calibrating Flow function.
- Easy dispensing function, it realizes the repeat timing quantitative dispensing, without the time controller.
- The operating expert system guides users setting parameters correctly.
- Intelligent temperature-control technology reduces working noise.
- External high-low electrical level controls the start/stop、reversible direction and easy dispensing function, optically coupled isolator, external analog adjusts the rotate speed.
- RS485 interface, MODBUS protocol is available, easy to connect other equipments.
- Internal double-deck isolation structure; circuit board with conformal coating makes it dust-proof and moisture-proof.
- Super anti-interference feature, wide input voltage range, acceptable for the complex power environment.
- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid、alkali、sodium and the organic solvents.
- Can drive multi-channels and various types of pump heads.
- Optional footswitch or timer for dispensing fluid.

Technical parameters	BT100L
Flow range(mL/min)	0.00016-570
Speed range(rpm)	0.1-150
Speed resolution(rpm)	0.1rpm
Flow accuracy	<0.5%
Power supply	AC220V ± 10% 50/60Hz(standard); AC110± 10% 50Hz/60Hz(optional).
Power consumption	<40W
External control:	Input level 5V,12V(standard),24V(optional) External control analog0-5v(standard),0-10v,4-20mA(optional)
Communication interface	RS485 communication interface, MODBUS protocol is available.
Operating condition	Temperature 0 ~ 40°C; Relative humidity <80%
IP grade:	IP31
Dimensions(LxWxH):	223x150x195(mm)
Weight:	4.7kg

### BT100L Applicable pump head,tubing and flow parameters:

Drive type	Pump head	Channel number	Tubing(mm)	One channel flow rate (ml/min)
BT100L (304 stainless steel )	DG6-1(6 rollers)	1	Wall 0.8~1, ID≤3.17	0.00016~49
	DG10-1(10 rollers)	1	Wall 0.8~1, ID≤3.17	0.00016~41
	DG6-2(6 rollers)	2	Wall 0.8~1, ID≤3.17	0.00016~49
	DG10-2(10 rollers)	2	Wall 0.8~1, ID≤3.17	0.00011~41
	DG6-4(6 rollers)	4	Wall 0.8~1, ID≤3.17	0.00016~49
	DG10-4(10 rollers)	4	Wall 0.8~1, ID≤3.17	0.00011~41
	DG6-8(6 rollers)	8	Wall 0.8~1, ID≤3.17	0.00016~49
	DG10-8(10 rollers)	8	Wall 0.8~1, ID≤3.17	0.00011~41
	YZ15	1	13#14#16#19#25#17#18#	0.0006~575
	YZ25	1	15#24#	0.1667~425
	2×YZ15	1	13#14#16#19#25#17#18#	0.0006~575
	2×YZ25	1	15#24#	0.1667~425
4×YZ15	1	13#14#16#19#25#17#18#	0.0006~575	

### BT100L Drive with different pump heads combination:



DG-1 (6, 10 rollers)



DG-2 (6, 10 rollers)



DG-4 (6, 10 rollers)



DG-8 (6, 10 rollers)



DG6-12 (6, 10 rollers)



YZ15 (25)



2xYZ15 (25)



4xYZ15

**Appearance size:**

