BT101F Intelligent Dispensing Peristaltic Pump

BT101F model peristaltic pump adopts color LCD touch screen with intuitive and clear displaying interface, easy to operate. Mainly used for accurate measurement and dispensing of complex liquid. If you need high accuracy volume dispensing mode is available. If need high producing efficiency, time dispensing mode is more convenient. If want to separate fluid to number of equal parts, copy dispensing mode would be best. When working on flow mode, it is as same as intelligent flow peristaltic pump. Adopt intelligent temperature-control technology to reduce working noise. RS485 interface, as adopting the MODBUS communication protocol, easier to be connected with other equipments, such as computer, human machine interface and PLC.

Application Fields: Modern Laboratories, Industrial Production, Agriculture, Medical Equipment, and other sectors
Typical Applications: Bacterial/Cell Culture, Microfluidic Transfer, Reagent and Medium Dispensing

Feature

- Color LCD display, touch screen and keypad for operating.
- LF-Touch-OS software system, efficient and stable, with good human-computer interaction mode, convenient product customization and upgrade.
- Four types of working mode: flow mode, volume dispensing mode, time dispensing mode, copy dispensing mode.
- All the dispensing modes can store up to 5 sets of dispensing parameters..
- Precious controlling technology for motor's rotating angle increases the dispensing accuracy comparing to traditional time dispensing mode caused by factors such as the slow start of the motor.
- Start/stop, reversible direction, full speed, adjust speed, state memory (power-down memory).
- Speed resolution is 0.1rpm.
- Display and control flow rate, accumulate dispensing volume automatically.
- Calibration function.
- 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 communication 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 .
- ABS plastic housing, creative streamlined appearance, beautiful and simple.
- Can drive multi-channels and various types of pump heads.
- Connect foot switch control start-stop for dispensing volume

Technical Parameter

Parameter	BT101F
Flow range	0.00011 ~ 750mL/min
Speed range	0.1~150rpm
Speed resolution	0.1rpm
Dispensing volume	0.001μL ~ 9999L (The recommended minimum filling volume is 50 μL)
Dispensing time	1 ~ 999, "0" Infinite loops
Dispensing interval time	0.1 ~ 999.9 S/Min/H, time unit adjustable
Speed accuracy	< ±0.2%
Power supply	AC100 ~ 240V, 50Hz/60Hz
Power consumption	< 30W
External control	External control input level 5V, 12V(Standard), 24V (Optional), External control analog 0-5V(Standard), 0-10V, 4-20mA (Optional)
Communication interface	RS485 communication interface, MODBUS protocol is available
Working environment	Temperature 0 ~ 40℃, relative humidity < 80%
IP grade	IP31
Dimension (L×W×H)	258mm×180mm×197mm
Weight	3.6kg

DG DS YZ15T YT25

BT101F Applicable Pump Head and Tube, Flow

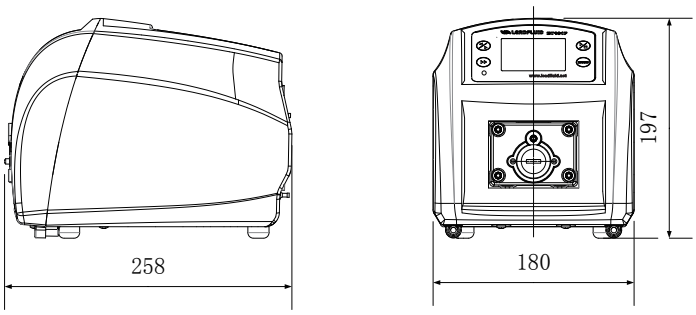
Drive Type	Pump Head	Channel	Tube	Single Channel Flow Rate(mL/min)
BT101F	DG/DS (10 rollers)	1,2,4	Wall0.8 ~ 1mm, ID≤3.17mm	0.00011 ~ 32
	DG /DS(6 rollers)	1,2,4	Wall0.8 ~ 1mm, ID≤3.17mm	0.00016 ~ 49
	YZ15/YZ15T	1,2	13#14#19#16#25#17#18#	0.005 ~ 641
	YT25	1	114#116#15#24#35#36#	0.024 ~ 750

Above flow parameters are obtained by using silicone tube to transfer pure water under normal temperature and pressure, in actually using it is effected by specific factors such as pressure, medium etc. Above for reference only.

Filling Application Reference Table

Filling Volume	Pump Head	Tube	Speed(rpm/min)	Filling Time(s)	Reliablility Error(%)
50μL	DG6-1	0.25×0.89mm	> 90	< 6.66	< ±2
0.1mL	DG6-1	0.5×0.92mm	> 90	< 3.33	< ±2
0.2mL	DG6-1	0.5×0.92mm	> 90	< 6.06	< ±1

Dimension(mm)



Statement: The final explanation right of above information belongs to Lead Fluid.

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