

BT100F-1 Intelligent Dispensing Peristaltic Pump

BT100F-1 Intelligent Dispensing Peristaltic Pump Introduction

BT100F-1 Intelligent dispensing peristaltic pump flow range is 0.00016-1700ml/min. It adopts color LCD touch screen with intuitive and clear displaying interface. Four working **modes**: volume dispensing, time dispensing, copy dispensing are suitable for different working requirements. Large torque output, with more pump head combination to use. The pump adopts intelligent temperature-control technology to reduce working noise. 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. Stainless steel housing easy to clean, corrosion resistant.

Function and Feature



- Color LCD displaying, touch screen and keypad for operating.
- Four types of working mode: flow rate mode, volume dispensing mode, time dispensing mode, copy dispensing mode are available.
- Three dispensing modes store five groups of working parameters automatically.
- Reversible direction, start/stop and full speed, state memory (power-down memory).
- Display and control flow rate, accumulate dispensing volume.
- Speed resolution is 0.1rpm.
- Expert guide calibration flow function.
- Remote infrared controlling 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 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.
- Large torque output, can drive multi-channels and various types of pump heads.
- Optional footswitch or timer for dispensing fluid.

Technical parameters:

- Flow range(mL/min): 0.00016-1700 mL/min;
- Speed range(rpm): 0.1-150 rpm/min;
- Speed resolution(rpm): 0.1rpm;
- Flow accuracy: <0.5%
- Power supply: AC 220V±10% 50Hz/60Hz (standard) ; AC 110V±10%, 50Hz/60Hz (optional) ;
- Power consumption: <60W;
- 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;
- Operating condition: 0 ~ 40℃ ;
- Relative humidity: <80%;
- IP grade: IP31;
- Dimensions(LxWxH):285mm×150mm×195mm;
- Weight: 6.5kg;

BT100F-1 Applicable pump head, tubing and flow parameters:

| Drive type | Pump head | Channel number | Tubing(mm) | One channel flow rate (ml/min) |
|---|---------------------|----------------|-----------------------|--------------------------------|
| BT100F-1 304 stainless steel housing | DG6-12(6 rollers) | 12 | Wall 0.8~1, ID≤3.17 | 0.00016~49 |
| | DG10-12(10 rollers) | 12 | Wall 0.8~1, ID≤3.17 | 0.00011~41 |
| | DG6-16(6 rollers) | 16 | Wall 0.8~1, ID≤3.17 | 0.00016~49 |
| | DG10-16(10 rollers) | 16 | Wall 0.8~1, ID≤3.17 | 0.00011~41 |
| | DG6-24(6 rollers) | 24 | Wall 0.8~1, ID≤3.17 | 0.00016~49 |
| | DG10-24(10 rollers) | 24 | 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 | 2 | 13#14#16#19#25#17#18# | 0.0006~575 |
| | 2×YZ25 | 2 | 15#24# | 0.1667~425 |
| | 4×YZ15 | 4 | 13#14#16#19#25#17#18# | 0.0006~575 |
| | 4×YZ25 | 4 | 15#24# | 0.1667~425 |
| | KZ25 | 1 | 15#24#35#36# | 0.25~1200 |
| | 2×KZ25 | 2 | 15#24#35#36# | 0.25~1200 |
| | DMD25 | 1 | 15#24#35#36# | 0.3~1700 |

BT100F-1 Pictures of applicable pump heads:



YZ15 (25)

2xYZ15 (25)

4xYZ15 (25)

KZ25



2x KZ25

DG6 (10) -12

DG6 (10) -16

DG6 (10) -24

Appearance size:

