

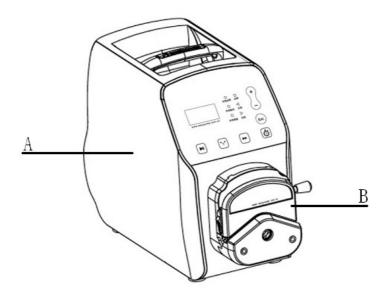
Precision Peristaltic Pump 6000 Series Manual







6000 Series Pump Appearance



A—— Drive

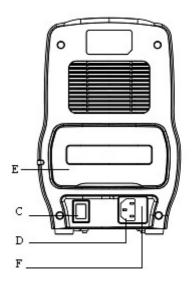
B—— Pump Head

C—— Power Switch

D--- Power Socket

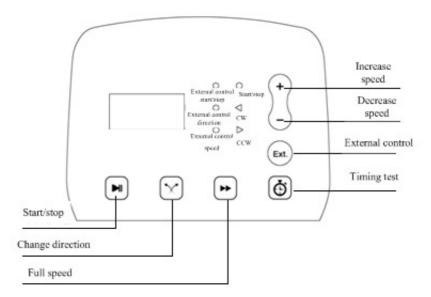
E— External Control Interface

F—— Fuse





6000 Series Operating Manual



Operating Instruction

Start/Stop button – press this button to start or stop the pump

Change Direction button – press this button to reverse the transfer direction

Increase/Decrease button – use this button to increase or decrease the pump speed

Full Speed button (Prime) – pump will run at full speed by pressing this button

External Control button

The button of external control mode functions only when the pump is in stop mode. It is used for changing different kinds of external control modes. The pump is in internal control mode when the indicator of external control start/stop, cw/ccw and speed are all dark.

Note: When the display indicator of external control is light, the relevant button of internal function will be shielded

Timer button

The timer button only works when the machine is in internal control mode. Press the timer button, the pump will work for 60 seconds at current speed (default time is 60 seconds). Press the timer button for over 5 seconds, the digital display will blink, press increase/decrease button to set the timer time.

6000 Series Technical Specification

➤ Flow range: Model 6001: 0.035 - 570 ml/min

Model 6003: 0.035 - 1330 ml/min Model 6006: 0.035 - 2280 ml/min

Speed range: Model 6001: 0.5 - 150 rpm

Model 6003: 0.5 - 350 rpm Model 6006: 0.5 - 600 rpm

 \triangleright Speed resolution: 0.1rpm(1~100rpm); 1rpm (100~600rpm);

Control method: Membrane keypad

External control: TTL level control start/stop and change direction

0-5V/0-10V/4-20mA control speed

Communication: RS232/RS485 interface. Support standard MODBUS

communication protocol.

Power supply: AC 220V±10%,50Hz/60Hz,

 $AC110V \pm 10\%$, 50Hz/60Hz

Consumption: <50W</p>

➤ Working condition: Temperature:0~40°C, Relative humidity < 80%

Pump weight: 4.8KgIP rate: IP31

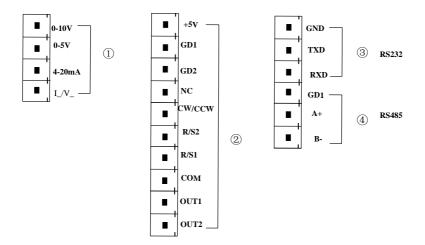


6000 Series Main Function and Features

- Membrane keypad control speed, also can be controlled with external control interface. Easy operation.
- > Can connect with dispensing controller, reach dispensing function.
- > Full speed button, fast filling and empty function.
- > Big torque, low consumption.
- > Good performance, low noise, working stable, power down memory function.

External control interface

External control interface diagram:



① **Analog signal input port:** when you use the external control, first choose the external control indicator light on. Then the external control is effective.

0-10V: 0V ~10V voltage signal input port.

0-5V: 0V~5V voltage signal input port.

4-20mA: 4~20mA current signal input port.

I_/V_: Analog signal negative port.



Note:

- 1. External control speed default signal is 0-5V voltage signal. If need to use other signal, contact us. Pump may be damaged without proper instructions.
- 2. Turn off the pump first when you connect the external control.

2 External control start/stop, change direction signal input port:

When use the external control start/stop, change direction function, choose the external control start/stop, change direction mode indicator light on first.

+5V: blank pin

GD1: Passive signal start/stop, change direction signal common port.

GD2: Active signal start/stop, change direction common port.

NC: Active change direction signal input port (default 24V)

CW/CCW: Passive change direction signal input port.

R/S2: Active start/stop signal input port (default 24V)

R/S1: Passive start/stop signal input port.

COM/OUT1/OUT2: blank pin

③ RS232 Communication interface definition (option)

TXD: Master send data port, connect with pin3 of DB-9 connector.

RXD: Master receive data port, connect with pin2 of DB-9 connector.

GND: Ground wire, connect with pin5 of DB-9 connector.

④ RS485 communication interface definition (option)

GD1: Ground wire, connect with RS485 transformer GND.

B: 485 communication signal port, connect with 485 transformer B-.

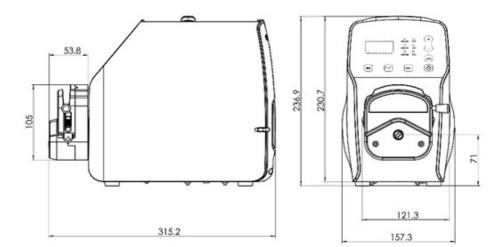
A: 485 communication signal port, connect with 485 transformer A+.

Note: 6000 series pump can connect with foot pedal switch and dispensing controller, if you need, please contact us.





Dimension



Maintenance

When pump is not in use, loosen the cartridge to avoid damage to the tube. Keep the rollers of the pump head clean and dry. Make sure pump head & rollers do not come in contact with any corrosive liquid.

Warranty and After Service

This pump comes with a one year warranty. The warranty does not include the tubing. Misuse of this product by the user will void the warranty.



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