

TYD01



Laboratory syringe pump TYD01

TYD01 is one assemble two syringes, support a variety of work modes of high precision syringe pump. High resolution color LCD touch screen, convenient and quick setup parameters, more lights clearly confirm the work of the state, and support for multiple syringe choice, to adapt to different laboratory flow requirements, high precision control, and has the protection and alarm mechanism. Support infusion/withdrawal five working modes. Built-in RS - 485 communication, support MODBUS protocol, full metal case, wide range power input, adapt to all kinds of the situations.



Function and Feature

- Assembly two syringes.
- Various working modes.
- Color LCD touch screen display, convenient operation.
- Support screen lock, key mute operation.
- Button with light, show the work state clearly.
- Support for multiple standard syringe, and can be defined syringe.
- Higher precise control.
- Syringe protection and alarm.
- RS485 communication interface, support the MODBUS protocol.
- The external signal control the start/stop and direction.
- Wide range power input.
- Full metal case.

The parameters

- Acceptable syringe: 10ul-150ml.
- Working modes: infusion, withdrawal, infusion/withdrawal , withdrawal/infusion, continuous mode.
- Display: 4.3 inch screen LCD, resolution 480 * 272, color 65 k.
- Operate mode : Resistance touch screen + key
- The flow accuracy : $\pm 0.5\%$.
- Linear force: 34 kg, the force can be adjusted.
- Advance per mircostep : 0.15625um/ustep.
- Maximum linear rate : 150mm/min.
- Minimum: 0.5um/min
- The external 24V signal controls the start/stop and direction.
- Work status signal output.
- Power : 100-240V 50/60Hz.
- Operation condition: 5-40°C <80%RH.
- Full metal case.
- Dimensions: 245×195×133mm.

Model selection

(Flow rate = Linear rate × Syringe inner sectional area)

Syringe size	Syringe ID (mm)	Min. flow rate (ul/min)	Mix .flow rate (ml/min)
50µl	1.03	0.004	0.124
1ml	4.61	0.083	2.504
5ml	10.3	0.417	12.498
10ml	14.57	0.834	25.009
25ml	23.03	2.083	62.484
50ml	26.59	2.776	83.294