

Intelligent Syringe Pump

NEW

ISPLab01

3 years warranty



Features

- | Colorful LCD display:
Friendly interface, 4.3 inch LCD display every technical parameter in real time.
- | Input syringe inner diameter function:
Can choose the injector from the list or input the injector inner diameter directly.
- | Two measurement mode for selection:
Infusion volume --- Infusion flow rate, Infusion volume --- Infusion time.
- | 4 different working modes:
Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion. The parameters of each working mode saving separately.
- | Alarm function:
The pump will stall and give an alarm when the drive structure of the pump is blocked.

Product Introduction

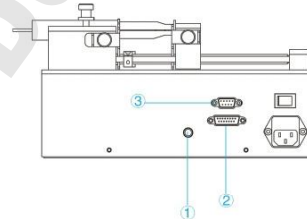
The intelligent syringe pump with infusion/withdrawal mode, stainless steel body, and 4.3" color LCD screen is easy to operate. It can install and fix different types of injectors or syringes in the same time, and it is suitable for transferring micro flow rates with high precision (non-medical).

Model Number

| ISPLab01, ISPLab02, ISPLab04, ISPLab06, ISPLab08,
| ISPLab10, ISPLab12



Syringe Pump External Control Schematic



- ① Foot pedal connector:
Connect with foot pedal switch
- ② 15 Pin connector:
External input and output
- ③ 9 Pin connector :
RS232 and RS485

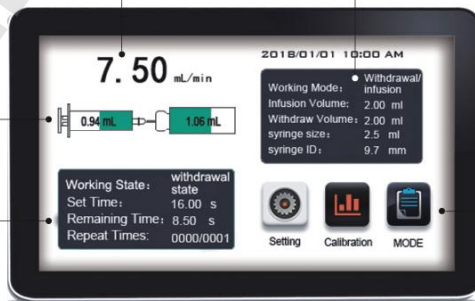
Real-time display flow rate

Display area for setting parameter

Display area for dynamic working

Display area for running parameter

Function setting area changeable by touching



ISPLab06

3 years warranty



ISPLab10

3 years warranty



Technical Specifications

| | | | | | | | |
|-------------------------------|---|-------------|-----------------|--------------------------------|---|----|----|
| Working mode | Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion | | | | | | |
| Channel number | 1 | 2 | 4 | 6 | 8 | 10 | 12 |
| Syringe size | 10 μ L–140mL | | 10 μ L–10mL | | | | |
| Flow rate | 0.001 μ L/min–127mL/min | | | 0.001 μ L/min–21.997mL/min | | | |
| Drive dimension(mm) | 282*209*165 | 282*236*158 | 282*209*175 | | | | |
| Infusion volume per microstep | 0.078 μ m | | | | | | |
| Min. linear rate | 5 μ m/min | | | | | | |
| Max. linear rate | 132mm/min | | | | | | |
| Min. step rate | 0.035ms/Mirco step | | | | | | |
| Max. step rate | 0.937sec/Mirco step | | | | | | |
| Max.linear force | 8–20kgf, online adjust | | | | | | |
| Advance per microstep | 0.078 μ m | | | | | | |
| Back distance | 0.01–10mm | | | | | | |
| Common modes | Can save at most 60 common modes | | | | | | |
| Accuracy | Error $\leq \pm 0.5\%$ (stroke $\geq 30\%$ maximum stroke) | | | | | | |
| Syringe | Installed syringe size and custom syringe ID | | | | | | |
| Display | Industrial grade 4.3" LCD color display | | | | | | |
| Control method | Touch screen and Mechanical keypad | | | | | | |
| Power-off memory | Display the previous data parameter after power supply again | | | | | | |
| Output state | OC gate signal output, used to indicate running status and direction | | | | | | |
| External control signal | Start/stop signal, withdrawal and infusion signal, active switch signal: 5V, 12V, and 24V for option; Start/stop signal, passive switch signal, such as foot pedal switch | | | | | | |
| Communication interface | RS232/RS485, Modbus protocol(RTU mode) | | | | | | |
| Power supply | AC 90-264V | | | | | | |
| Condition temperature | 0-40°C | | | | | | |
| Relative humidity | <80% | | | | | | |
| IP rate | IP31 | | | | | | |

| Syringe | Inside Diameter(mm) | Flow Rate(μ L/min–mL/min) | |
|---------|---------------------|--------------------------------|-------------------|
| | | ISPLab01/ISPLab02 | ISPLab04-ISPLab12 |
| 1mL | 4.70 | 0.087–2.290 | 0.087–2.290 |
| 2.5mL | 9.70 | 0.370–9.755 | 0.370–9.755 |
| 5mL | 12.48 | 0.612–16.147 | 0.612–16.147 |
| 10 mL | 15.89 | 0.992–26.177 | 0.992–26.177 |
| 20mL | 20.00 | 1.571–41.469 | — |
| 30 mL | 22.50 | 1.988–52.484 | — |
| 50 mL | 28.90 | 3.280–86.588 | — |