

Syringe Pump

Technical Specifications

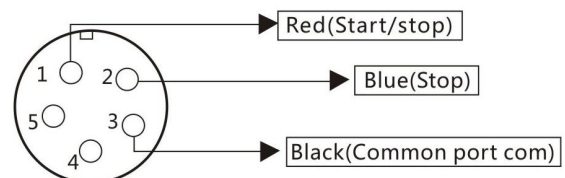
| | | | | | | | |
|-------------------------------|---|---|---|--------------------------------|---|----|----|
| Working mode(6 kinds) | Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous, additional mode (infusion/withdrawal, then exclude bubble). | | | | | | |
| Channel number | 1 | 2 | 4 | 6 | 8 | 10 | 12 |
| Syringe size | 10 μ L-100mL | | | 10 μ L-10mL | | | |
| Flow rate | 0.001 μ L/min-127 mL/min | | | 0.001 μ L/min-21.997mL/min | | | |
| 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 | 10kgf | | | | | | |
| Advance per microstep | 0.078 μ m | | | | | | |
| Accuracy | $\leq \pm 0.5\%$ | | | | | | |
| Operating mode | Rotary encoded switch and imported membrane keypad | | | | | | |
| Display mode | 320 \times 240TFT-LCD | | | | | | |
| Power-off memory | Display the previous data parameter after power supply again | | | | | | |
| Power supply | AC 220V $\pm 10\%$ (standard),AC 110V $\pm 10\%$ (optional) | | | | | | |
| Operating condition | Temperature 0-40 $^{\circ}$ C, Relative humidity <80% | | | | | | |

| Syringe | Inside Diameter(mm) | Flow Rate(μ L/min-mL/min) | |
|------------|---------------------|--------------------------------|-----------------|
| | | SPLab01/SPLab02 | SPLab03-SPLab10 |
| 50 μ L | 1.03 | 0.004~0.110 | 0.004~0.110 |
| 1mL | 4.61 | 0.083~2.203 | 0.083~2.203 |
| 2.5mL | 7.28 | 0.208~5.492 | 0.208~5.492 |
| 5 mL | 10.30 | 0.417~10.993 | 0.417~10.993 |
| 10 mL | 14.57 | 0.834~21.997 | 0.834~21.997 |
| 25 mL | 23.03 | 2.083~54.958 | — |
| 50 mL | 32.57 | 4.166~109.921 | — |
| 60 mL | 32.57 | 4.166~108.310 | — |

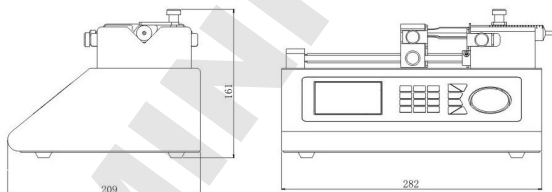
Installation Sizes Drawing (Unit: mm)

| Channel No. | 4 | 6 | 8 | 10 | 12 |
|-------------|-----|-----|-----|-----|-----|
| L | 145 | 190 | 235 | 280 | 325 |

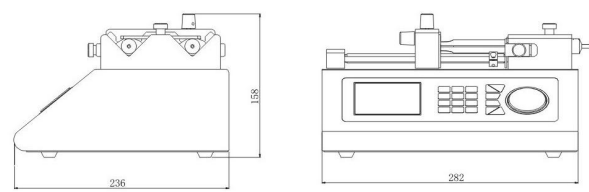
Syringe Pump External Control Schematic



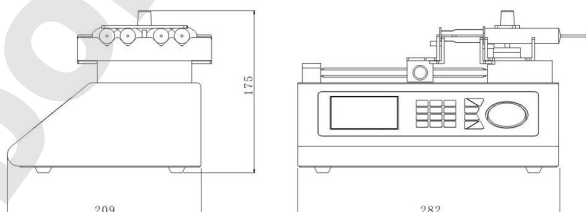
SPLab01



SPLab02



SPLab04



SPLab10

