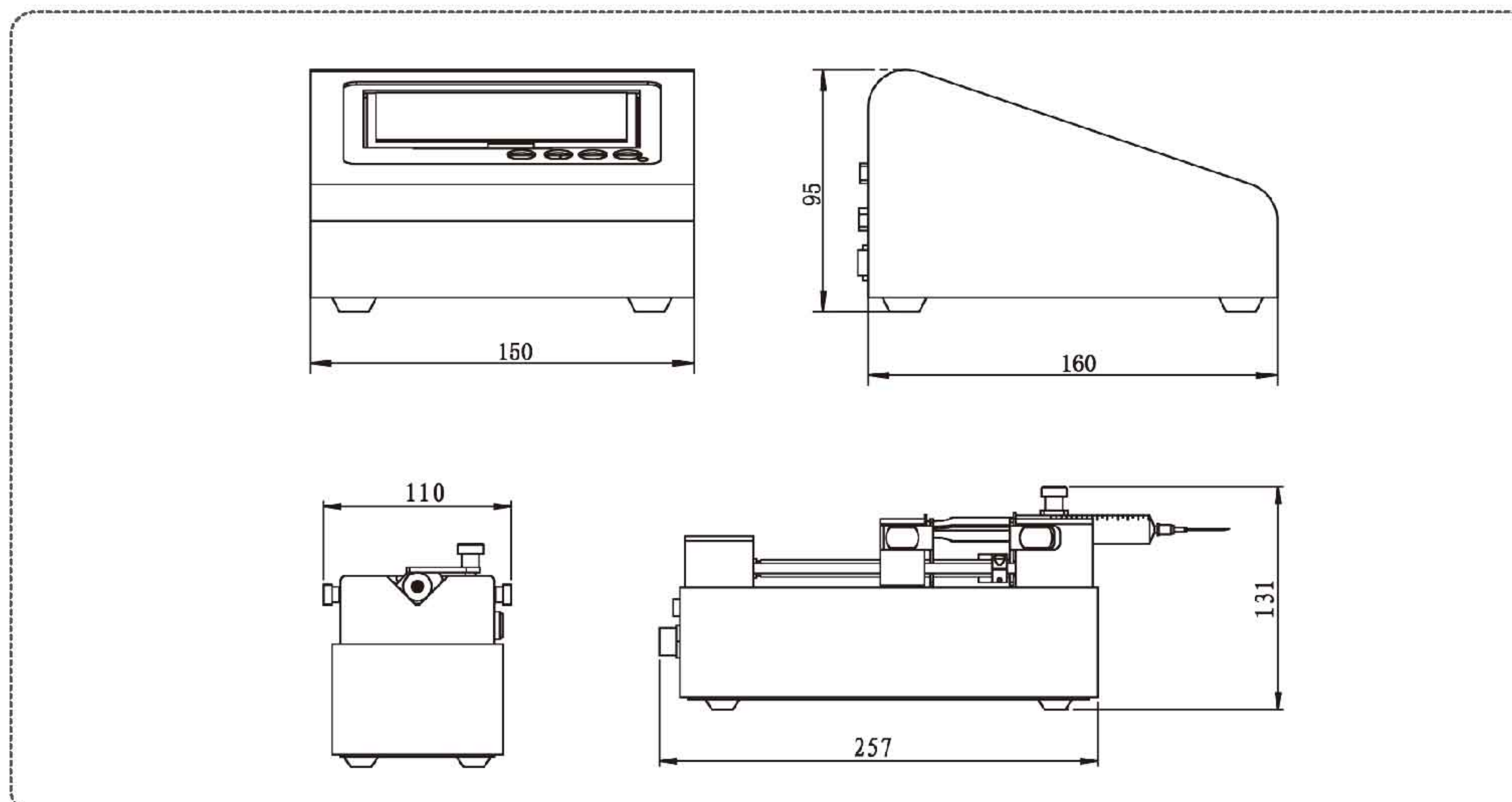## Programmable Syringe Pump

Model No.

SPM/ZU-I

Introduction

4.3 inch touch screen control, compact design. Display 8 pump units working parameters and working state in samescreen. Friendly interface, easy operation. Split design, mainly for laboratory.

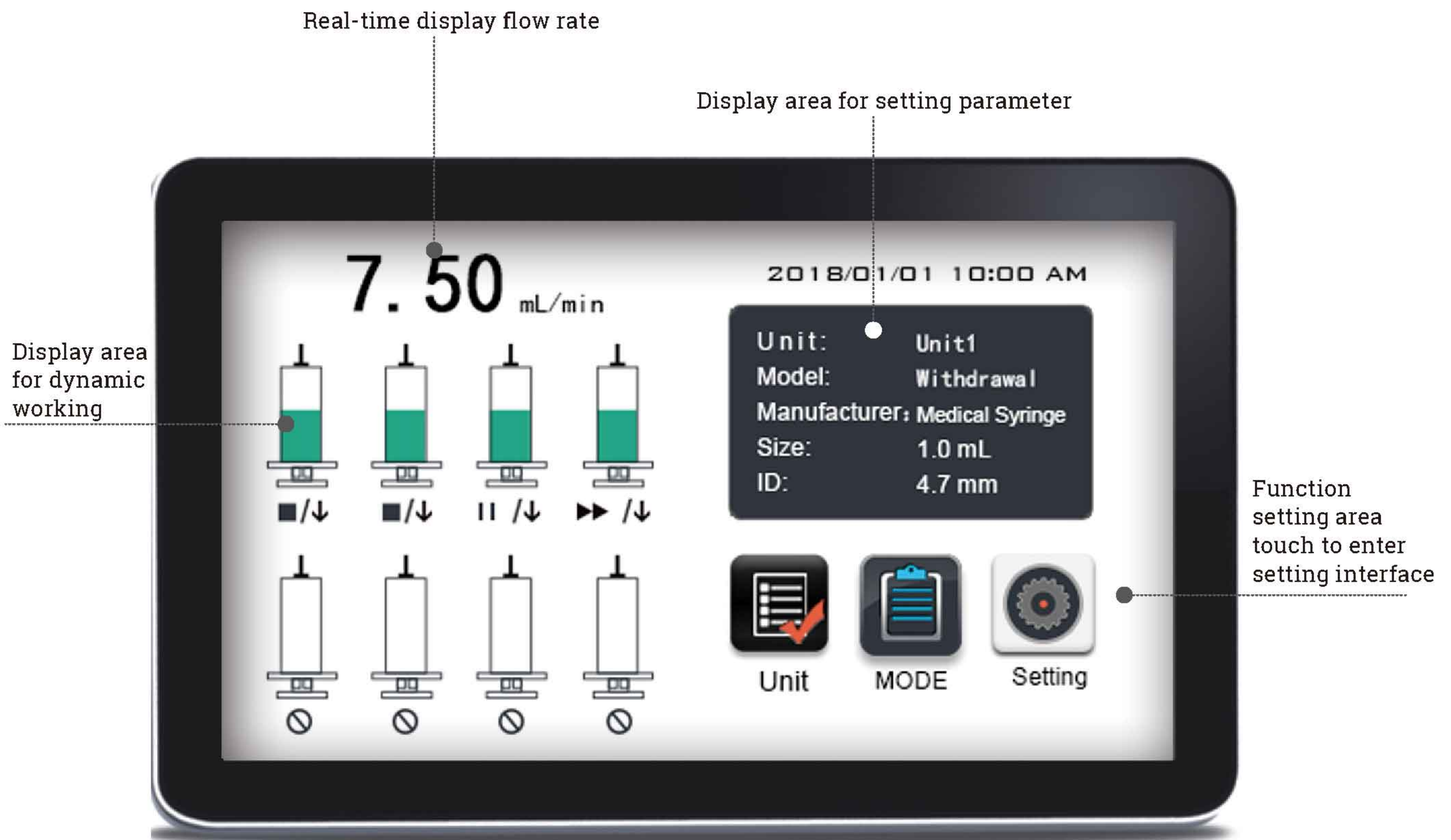### Features

| Online flow rate modification function:

| Can adjust the flow rate during the pump is running.

| Each unit working independently, can set one or some units freely.

| Each unit can infuse or withdraw different volume in same time or different time.

| Intelligent calibration, ensure infuse volume accuracy. Online micro adjusting function, convenient to adjust the volume of one units, decrease volume error.

| Real time monitor, animate display monitor result. Controller can receive traffic alarm of each unit.

| Back distance setting, can exclude bubbles inside syringe, improve volume accuracy.

| Fast forward and backward function used for loading syringe, washing and unlock traffic protection.

Dimension Drawing (Unit: mm)

◄◄◄ Laboratory Syringe Pump

Interface Display

Real-time display flow rate

Display area for setting parameter

Display area for dynamic working

7.50 mL/min

2018/01/01 10:00 AM

Unit:	Unit1
Model:	Withdrawal
Manufacturer:	Medical Syringe
Size:	1.0 mL
ID:	4.7 mm

■/↓   ■/↓   II/↓   ►►/↓

Unit   MODE   Setting

Function setting area touch to enter setting interface

Technical Specifications

Working mode(Five)	Infusion,withdrawal,infusion/withdrawal,withdrawal/infusion	Display	Industrial grade 4.3"LCD color display
Pump unit	1-8 optional	Control method	Touch screen and Mechanical keypad
Syringe size	ZU-I: 0.5μL-50mL	Power-off memory	Display the previous data parameter after power on again
	ZU-I-G1: 250μL-25mL	External control signal	Start/stop signal,active switch signal: (5-24V)
	ZU-I-G2: 50mL-100mL		
Syringe selection	Syringe size and customized diameter	Communication interface	RS232/RS485(Modbus protocol, RTU mode)
Linear speed range	1μm/min-132mm/min(Flow rate=Linear speed* syringe inner cut area)		
Min. linear rate	1μm/min	Controller power supply	DC5V/10W
Linear force	≥16Kgf	Pump unit power supply	DC24V/30W
Max.stroke	90mm	Condition temperature	0~40°C
Stoke resolution	0.078μm/μStep	Relative humidity	<80%
Accuracy	Stroke≥30% maximum stroke, Error≤ ±0.5%	IP rate	IP31
		Controller dimension	160×150×95(mm)
Back distance	0.01-5mm	Controller weight	1.0kg
Working mode	Independent working mode	Pump unit dimension	257×110×131(mm)
Stored modes	Can save 10 group working modes	Pump unit weight	3.0kg