

SP20

Air Pipetting Pump

*Ultra-high precision | Flexible | Intelligent control
| Wear-resistant and corrosion-resistant.*

SP20 is a pipetting module developed by Keyto based on air aspirate and dispense technology with tips to avoid contamination of samples and pipelines. The module includes a highly sensitive pneumatic liquid level detection (pLLD) that can detect the liquid level very quickly. The SP20 pipette integrates a drive controller, which controls the operation of the motor by receiving instructions from the host computer, so as to achieve rapid liquid aspirate and dispense.



• Flexible choice



• Intelligent control



• Precision pipetting



• Long service life



Main Applications



Functions

1 Plunger drive

Adopts a through-axis linear motor to drive an integrated guide rail, which can achieve precise aspirate and dispense at high speed.

2 Control module

Integrated with a drive controller, which controls the operation of the motor by receiving instructions from the host computer, so as to achieve rapid aspirate and dispense.

3 Bracket module

Special aluminum oxide oxidation blackened bracket, light and compact, suitable for quick pipetting and sample addition.

4 Cavity head module

Cavity head material is high chemical resistance and high abrasion resistance, which can ensure that there is no need to replace probe during the life cycle.

Technical features

- ① Suitable standard probe size- 12mm,40mm,65mm
- ② Anticipated life -Strict inspection procedures and unique sealing scheme ensure that the service life of the pipette can reach more than 1 million cycles.
- ③ Product function-It can realize retreat and detection tip head, self-contained liquid level detection, clot detection, empty suction error report, and coordinate with the Z axis to realize the liquid level following function.
- ④ Prevention of cross-contamination Compatible with disposable tips, greatly reduced the possibility cross-contamination.

Specifications

Maximum displacement	100ul-1ml	Communication and control	RS-232, RS-485 or CAN
Liquid level detection (LLD)	Pressure-based detection	Drive design	Adopts through linear motor drive integrated guide rail.
Weight	≤330g	Medium temperature	+5-40°C
Tip volume	10ul/50ul/200ul/300ul/1ml tip	Power requirement	24V DC
Dimensions	10ul/50ul/200ul/300ul/1ml tip	Anticipated life	1 million cycles.