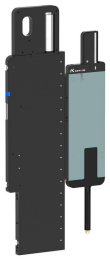
King Square

ZADP1000-8 Z-Axis Pipetting Module

Slim Z-axis pipetting module with an integrated air-displacement pump.



Technical specifications

Power supply	DC 24 V,rated current 700 mA
Connector	16pin-FFC
Communication	RS-485/CAN
Signal output	One open-collector output for liquid-level detection
Operating environment	Temperature 15 °C-35 °C, RH 20%-85%non-condensing
Effective travel	180 mm Z-axis travel
Maximum speed	150 mm/s
Rated full-travel life	1,000,000 cycles at rated pipetting accuracy
Dimensions and mass	height 308 mm, width 138 mm, depth:8.5 mm, mass 470 g (single Z-axis pump)

Product features

- Capacitive and pressure-based liquid-level detection.
- Force-controlled tip pickup for compatible disposable tips.
- Air-path blockage detection.
- Detects aspiration of air.
- Monitors tip status during the liquid-handling cycle.
- Active disposable tip ejection.
- RS-485 and CAN communication.
- Disposable tips help limit sample carryover.
- Designed for low-noise operation.

Pipetting performance

Operating mode	Tip capacity	Test volume	Precision (CV)	Accuracy
Single aspiration / single dispense	10 µL	1 µL	≤5%	±5%
Single aspiration / single dispense	50 µL	5 µL	≤1.80%	±1.50%
Single aspiration / single dispense	200 µL	10 µL	≤2%	±2.50%
Single aspiration / single dispense	1000 µL	100 µL	≤1%	±2%
Single aspiration / single dispense	1000 µL	20 µL	≤2.5%	±3%

Dimension drawing



同款泵搭配A\B 款 Z 轴
同侧安装实现多联布局

