King Square

ZADP1000-42 Z-Axis Pipetting Module



Single-channel Z-axis module that integrates an ADP1000 pump with a belt-driven vertical axis.

Technical specifications

Power supply	DC24V,peak current2000 mA
Communication	RS-485/CAN
Operating environment	Temperature15 °C-35 °C, RH20%-85%non-condensing
Effective travel	120 mm (customizable)
Maximum speed	350 mm/s
Positioning accuracy	±0.05 mm
Theoretical resolution	0.00325 mm
Rated full-travel life	1,000,000 cycles
Force-controlled tip pickup range	8 N–45 N
Dimensions and mass	height 245.5 mm, width 101.2 mm, depth 42 mm, mass 1120 g

Product features

- Designed for high-speed motion.
- Belt transmission supports quiet linear motion.
- Force-controlled tip pickup for compatible disposable tips.
- One-way damping helps retain axis position during power loss.
- RS-485 and CAN communication.
- A compact command set supports integration with host control software.
- Designed for low-noise operation.

Dimension drawing

