iFlow-Pro

Electronic Bottle-Top Dispenser in 10, 25 & 50 mL Capacities

Efficient & Smart · Precise Dispensing · Flexible & Versatile

This electronic bottle-top dispenser integrates multi-functionality, high precision, and intelligent operation. It supports multiple dispensing modes with flexible operation and easy maintenance. It can serve as a compact, high-precision filling device for various liquid dispensing and sample handling tasks, widely applied in scientific research and light industrial fields. Equipped with a touchscreen control system, consumable-free design, and a range of accessories, it meets laboratories' high standards for efficiency, safety, and diversified liquid handling.

NEW

Features

- **High-precision dispensing:** Ensures excellent repeatability and accuracy, suitable for applications requiring strict liquid volume control.
- **Smart touchscreen operation:** Clear touchscreen interface for convenient and intuitive operation, improving work efficiency.
- **Consumable-free design:** No need for consumable replacement, offering long-term cost savings and environmental benefits.
- **Low maintenance cost:** Simple structure with maintenance-free design reduces daily workload.
- **Expandable for industrial use:** Can be easily adapted to connect with automation systems for small-scale production line liquid dispensing tasks.
- **Drying tube configuration:** Standard drying tube for reagents sensitive to moisture and CO_2 (users can add compatible absorbents).
- **Built-in rotary valve:** 0–90° rotation design with quick venting and reagent recirculation functions, enhancing operational safety.
- **Optional windows:** Standard transparent and amber windows; amber is suitable for light-sensitive liquids (e.g., iodine solution, potassium permanganate, silver nitrate).
- **Touchscreen control:** Intuitive and convenient interface for setting dispensing programs, improving workflow efficiency.
- **Efficient liquid handling:** Adjustable aspiration/dispense speed with 10-level control to accommodate different viscosities and workflows.
- **Multiple dispensing modes:** Supports manual dispensing, automatic dispensing, automatic multi-step dispensing, manual free dispensing, custom dispensing, and titration functions—one device, multiple applications.

Dispensing Modes

Manual fixed-volume dispensing: Set volume (mL); manually control aspiration and dispensing.

Automatic fixed-volume dispensing: Set dispensing interval, volume, and repetitions; manually trigger the first dispense, then the program continues dispensing according to the set interval.

Automatic multi-step dispensing: Set dispensing volumes for different steps (step1, step2…step10, up to 10 steps, with total volume not exceeding piston capacity), plus interval time; manually trigger the first dispense, then the program runs according to the set intervals.

Manual free dispensing: Manually control aspiration and dispensing volumes.

Custom dispensing: Define steps (step1, step2, step3…stepN), intervals, volumes, aspiration, and dispensing; save as a program for future use.

Titration: Perform manual or continuous titration until stopped; display titration volume (e.g., volumetric flask preparation, pH adjustment).

Specifications

	10mL	25mL	50mL
Working range	0.01 mL – 10 mL, max transfer volume 25 mL, min 10 µL	0.02 mL – 25 mL, max transfer volume 25 mL, min 20 µL	0.02 mL – 50 mL, max transfer volume 50 mL, min 20 µL
Operating temperature range	10-30℃	10-30℃	10-30℃
Quality standard	ISO 8655	ISO 8655	ISO 8655
Bluetooth function	Yes	Yes	Yes
WiFi function	Yes	Yes	Yes
Battery capacity	3500mAh	3500mAh	3500mAh
Display	1000 experimentrecords	1000 experimentrecords	1000 experimentrecords
Display	4.3-inch TFT color screen, 800×480 resolution	4.3-inch TFT color screen, 800×480 resolution	4.3-inch TFT color screen, 800×480 resolution
PC interface	Type-C and WiFi	Type-C and WiFi	Type-C and WiFi
Weight	1.2kg	1.2kg	1.2kg

Working accuracy

Volume mL	Measured volume mL	Systematic error µL	Systematic error %	Random error µL	Random error %
0.01-10mL	10mL	±50	±0.5	±30	±0.3
	5mL	±50	±1.0	±30	±0.6
	1mL	±50	±5.0	±30	±3.0
0.02-25mL	25mL	±125	±0.5	±62.5	±0.25
	12.5mL	±125	±1.0	±62.5	±0.5
	2.5mL	±125	±5.0	±62.5	±2.5
0.02-50mL	50mL	±250	±0.5	±125	±0.25
	25mL	±250	±1.0	±125	±0.5
	5mL	±250	±5.0	±125	±2.5

* Dispensing accuracy complies with ISO 8655-5