TECHNICAL DATA SHEET

ALab™ dFlow-Pro Electronic Bottle-Top Dispenser

Electronic bottle-top dispenser · 10 / 25 / 50 mL · touchscreen · six dispensing modes



ALab™ dFlow-Pro Electronic Bottle-Top Dispenser

The ALab™ dFlow-Pro electronic bottle-top dispenser; image shown for reference.

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SECTION I

Product Overview

The ALab™ dFlow-Pro is a touchscreen electronic bottle-top dispenser with multiple dispensing modes, in three sizes with working ranges of 0.01 to 10 mL, 0.02 to 25 mL and 0.02 to 50 mL. Dispensing accuracy complies with ISO 8655-5.

A 4.3-inch TFT color touchscreen sets the programs, aspiration and dispense speed is adjustable in 10 levels, and six modes cover fixed-volume, multi-step, custom, free dispensing and titration. The consumable-free design has a 0 to 90° rotary valve, a standard drying tube and transparent and amber windows.

SECTION II

Core Advantages

- **Precision** — ISO 8655-5 dispensing accuracy
- **Modes** — six, incl. multi-step and titration
- **Running cost** — consumable-free
- **Control** — 4.3-inch touchscreen
- **Speed** — 10-level aspiration / dispense
- **Connectivity** — Type-C, WiFi, Bluetooth

SECTION III

Specifications

Technical data — dFlow-Pro

Specifications	
Brand	ALab™ by ACS Material
Model	dFlow-Pro
ACS Cat. No.	Parent ALDFLP; ALDFLP01 to ALDFLP03
Product type	Electronic bottle-top dispenser
Sizes	10 mL, 25 mL, 50 mL
Working range	0.01 to 10 mL, 0.02 to 25 mL, 0.02 to 50 mL (see the size table)
Aspiration / dispense speed	Adjustable, 10 levels
Rotary valve	Built-in, 0 to 90°, quick venting and reagent recirculation
Windows	Transparent and amber (standard)
Drying tube	Standard
Operating temperature range	10 to 30°C
Quality standard	ISO 8655 (dispensing accuracy per ISO 8655-5)
Display	4.3-inch TFT color touchscreen, 800 × 480 resolution
Memory	1000 experiment records
Battery capacity	3500 mAh
Weight	1.2 kg
Connectivity	PC interface Type-C and WiFi; Bluetooth

Sizes and working ranges

Size	Working range	Min. volume	ACS Cat. No.
10 mL	0.01 to 10 mL	10 µL	ALDFLP01
25 mL	0.02 to 25 mL	20 µL	ALDFLP02
50 mL	0.02 to 50 mL	20 µL	ALDFLP03

Working accuracy (dispensing accuracy complies with ISO 8655-5)

Working range	Measured volume (mL)	Syst. error (µL)	Syst. error (%)	Random error (µL)	Random error (%)
0.01 to 10 mL	10	±50	±0.5	±30	±0.3
	5	±50	±1.0	±30	±0.6
	1	±50	±5.0	±30	±3.0
0.02 to 25 mL	25	±125	±0.5	±62.5	±0.25
	12.5	±125	±1.0	±62.5	±0.5
	2.5	±125	±5.0	±62.5	±2.5
0.02 to 50 mL	50	±250	±0.5	±125	±0.25
	25	±250	±1.0	±125	±0.5
	5	±250	±5.0	±125	±2.5

Dispensing modes

Dispensing mode	How it works
Manual fixed-volume dispensing	Set the volume (mL); aspiration and dispensing are controlled manually.
Automatic fixed-volume dispensing	Set the dispensing interval, volume and repetitions; trigger the first dispense manually, then the program continues at the set interval.
Automatic multi-step dispensing	Set volumes for up to 10 steps (total not exceeding the piston capacity) plus the interval time; trigger the first dispense manually, then the program runs at the set intervals.
Manual free dispensing	Aspiration and dispensing volumes are controlled manually.
Custom dispensing	Define steps, intervals, volumes, aspiration and dispensing, and save them as a program for future use.
Titration	Manual or continuous titration until stopped, with the titration volume displayed (e.g., volumetric flask preparation, pH adjustment).

Scope of delivery

— Standard configuration: dFlow-Pro electronic bottle-top dispenser of the selected size, drying tube, transparent and amber windows.

SECTION IV

Applications

A compact filling device for liquid dispensing and sample handling in research laboratories and light industry; can be adapted to automation systems for small-scale production line dispensing.

Use the amber window for light-sensitive liquids and a compatible absorbent in the drying tube for moisture- or CO_2-sensitive reagents. Specifications are per the tables above.

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