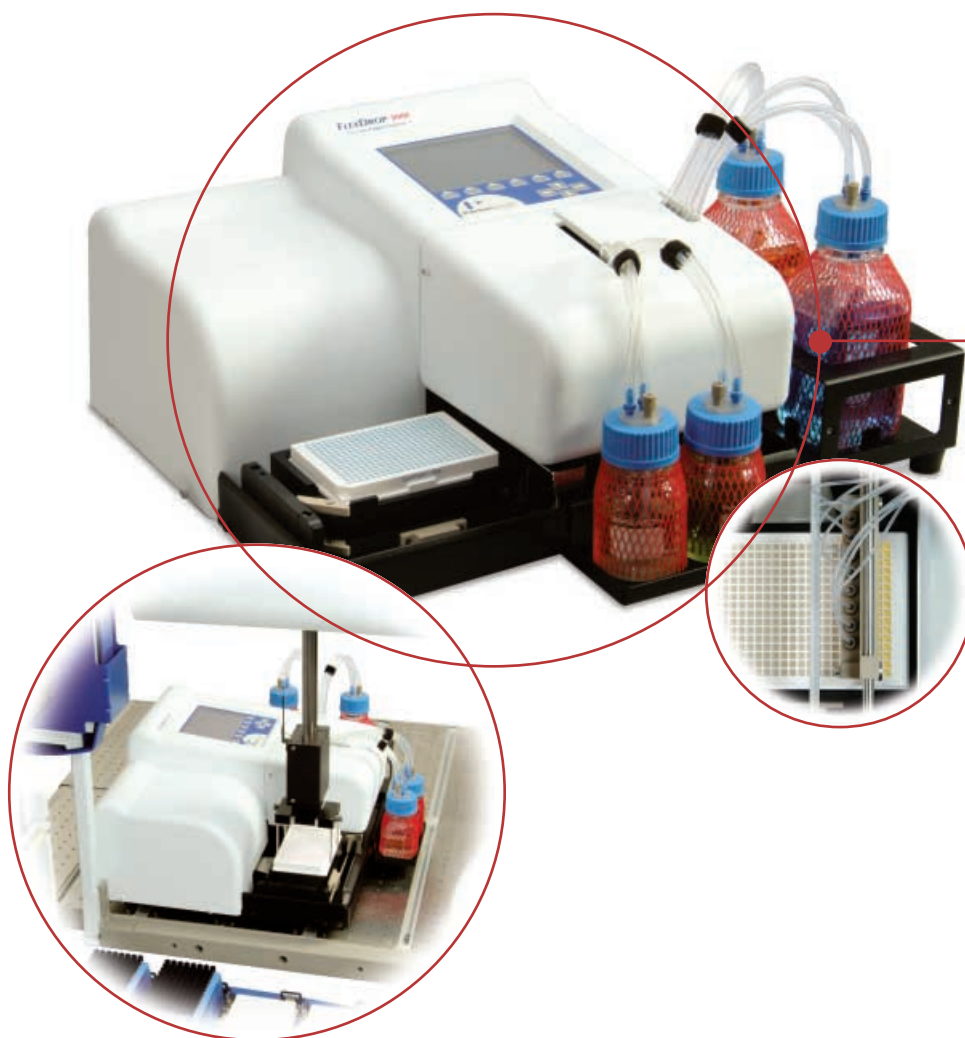
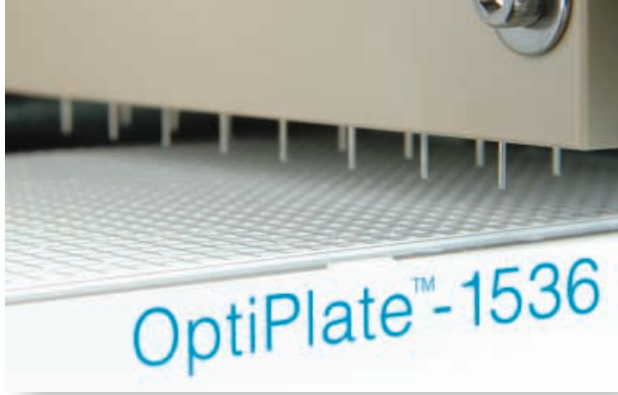


FLEXDROP™ 
Precision Reagent Dispenser 

Precise Dispensing of Buffers, Reagents,
Solvents and More... From 200 nL to 2 mL





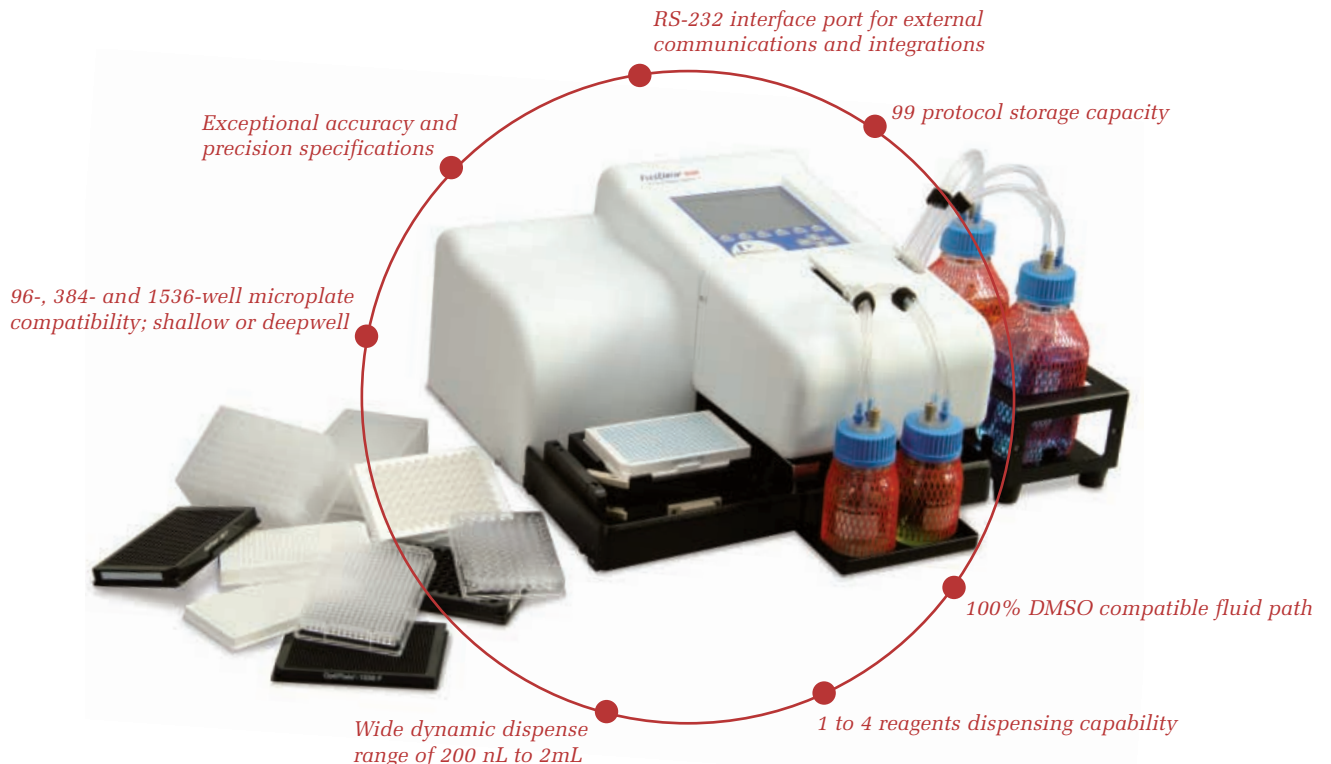
Precise Dispensing of Buffer
and More... From 200 nL to 2 mL

FlexDrop™ Precision Reagent Dispensers

The FlexDrop System is a versatile reagent dispenser for today's research and screening laboratories. With its unique ability to accurately dispense into all SBS-standard formats, including 96-, 384- and high-density 1536-well microplates, FlexDrop provides a number of important benefits for increased throughput.

Designed for precise automated dispensing of buffer, reagents, solvents and cells, FlexDrop provides an efficient solution to the tedious task of plate preparation for assays and storage. FlexDrop easily outperforms batch processing robots—both with its high-speed dispensing system and its ability to achieve dispense accuracy and precision of $\leq 5\%$ across a wide dynamic dispense range.

The family of low volume FlexDrop Precision Reagent Dispensers provide a wide dynamic dispense volume range of 200 nL to 2 mL for 96-, 384- and 1536-well shallow and deepwell plates. Up to four reagents can be dispensed depending on the model, and pressurized reagent bottles are used to enable the dispense mechanism. Each reagent dispense manifold uses eight dispensers for rapid microplate processing. Reagent flow and dispense volume are managed by high-speed precision solenoid valves. The FlexDrop EX models provide additional capacity with integrated microplate stackers for full walk-away automation.



uffers, Reagents, Solvents
to 2 mL

Reagent Dispenser

The FlexDrop Dispenser is intended for use in any research laboratory using 96-, 384- and 1536-well microplates, whether shallow or deepwell formats. This includes analytical, biotech/life science and clinical testing laboratories from academia to government and commercial to industrial markets. It is designed for precise, rapid reagent dispensing for:

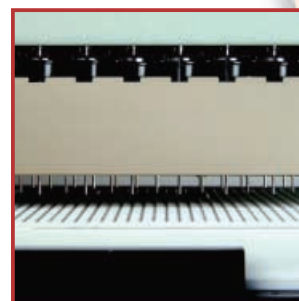
- Cell-based assays
- ELISA assays
- PCR setups
- Compound distribution to alternative plate formats
- Compound storage to deepwell plates
- Compound/sample reformatting
- Diluent dispensing
- Plate compression/expansion protocols

Features:

- 96-, 384- and 1536-well compatibility provides flexibility to meet a broad range of laboratory assay formats.
- Reagents are dispensed through manifolds with eight individual dispensers for rapid dispensing.
- High-throughput microplate processing with fast cycle times enables dispensing 0.4 μ L into a 384-well plate in <10 seconds and 0.4 μ L into a 1536-well plate in <30 seconds.
- 1 to 4 reagent dispensing capability makes complex assay development easy—all on the same instrument.
- Exceptional accuracy and precision performance with CV's of $\leq 5\%$ for volumes as low as 500 nL to optimize method results and insure quality data.
- Stacker cassettes for the FlexDrop EX model provide capacity for up to 50 SBS-standard microplates or up to 33 microplates when used for lidding/delidding protocols.
- Up to 99 common dispense methods may be entered and stored to save time in performing assays.
- Membrane keypad and display is easy-to-use, and guides the user through method development.
- RS-232 interface allows for external method writing and communication enabling device integration with robots and other peripheral systems to extend the instrument's capabilities.
- Small footprint to easily fit the instrument into a laboratory biosafety or fume hood ensures sterile containment and safe dispensing of volatile reagents and solvents.



Reagent bottles are available in 100, 250, 500 and 1000 mL sizes. A 40 mL reagent vial is also available.



Up to four dispense manifolds, each with eight dispensers, provide rapid reagent delivery into 96- through 1536-well microplates.



The FlexDrop EX and EXi models provide extra capacity with integrated stackers. An optional diving board extension can be used for additional device integrations.



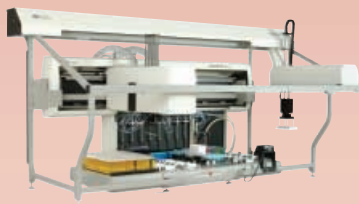
RS-232 port allows integration with the Gripper™ Integration Platform for the MultiPROBE II system.

Model Information

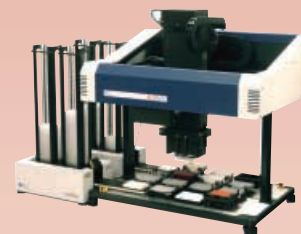
Model	Reagent Capacity	Dispense Volume Range (in 0.1 uL increments)	Microplate Compatibility (shallow and deepwell)	Dispense Head Configuration
Low Volume Dispensers				
FlexDrop III	1 - 2	200 nL - 2 mL	96-, 384- and 1536-well	2 x 8 precision valves
FlexDrop IV	1 - 4	200 nL - 2 mL	96-, 384- and 1536-well	4 x 8 precision valves

Innovative Solutions for Innovative Science

PerkinElmer offers the life science industry's broadest range of automated systems for liquid handling and sample preparation. Our tailored solutions range from compact, cost-effective systems for small academic laboratories to high throughput, high capacity systems for large labs engaged in clinical, biotech and drug discovery research. From microplate preparation and compound reformatting to fully integrated workstations for complex assay development and analysis, PerkinElmer has an automation solution to fit your needs.



Flexible Pipetting Workstations



Benchtop Microplate Processors



High Capacity/High Throughput Liquid Handling Systems



Integrated Workstations for Specialized Research Applications



Americas: PerkinElmer Life and Analytical Sciences, 710 Bridgeport Avenue, Shelton, CT 06484 USA (800) 762-4000

Europe: PerkinElmer Life and Analytical Sciences, Imperiastraat 8, B-1930 Zaventem Belgium

Technical Support: in Europe: techsupport.europe@perkinelmer.com in US and Rest of World: techsupport@perkinelmer.com

Belgium: Tel: 0800 94 540 • **France:** Tel: 0800 90 77 62 • **Netherlands:** Tel: 0800 02 23 042 • **Germany:** Tel: 0800 1 81 00 32 • **United Kingdom:** Tel: 0800 89 60 46

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