



Brandel's new Micro Dispensing Systems offer high efficiency, repeatable accuracy and maximum flexibility – at a cost far below most dispensers currently on the market.

Micro Dispensers are available in two basic models, according to the type of fluid you wish to dispense:

- viscous solutions such as scintillation cocktail;*
- thinner, aqueous solutions such as buffers.*

In their standard configurations, both models are designed for use with 96-well plates. Microdispensers for 12, 24, or 48-well plates and other custom formats are available on request.

Micro Dispensing Systems consist of a Dispensing Unit and a separate, Pump/Controller with keypad. Dispensers can also be operated by remote computer using the Controller's RS232 port.

Models, Features & Specifications

Volume Range & Accuracy

- User defined volumes between 10 and 999 μ l.
- $\pm 5\%$ relation to calibration with $\pm 3\%$ repeatability

Variety of Models

PXR For dispensing viscous solutions such as scintillation cocktail

XR For dispensing thinner, aqueous solutions such as buffer

XRM For dispensing thinner, aqueous solutions using Millipore® vacuum manifold

Variety of Formats

Micro Dispensers are available in the following formats to match your plates:

- For standard 96-well plates
- Custom configurations for 6, 12, 24, 48-well plates and others upon request.

Cost

Brandel's Micro Dispensers are priced *less* than most systems that offer *fewer* features.



From left: Pump/Controller; PXR-96 for dispensing scintillation cocktail into filter-bottom well-plates; XR-96 for dispensing aqueous solutions into shallow or deep-well plates; XRM-96 for use with Millipore® vacuum manifold.

Ease of Use

Operations are menu driven. Simply enter the volume you wish to deliver and set pump dial to dispense.

Compact Size

Micro Dispenser and Pump/Controller occupy less than 18 x 18. in. of bench space

Versatility

- XR models can be used with shallow or deep-well plates
- Dispensing manifolds can be easily interchanged.
- Liquids of similar viscosity can be used in the same dispenser.
- Reversible pump clears the system and saves solution.
- Dispenser can be operated remotely, through an RS232 port, or from controller keypad.

Durability

Critical components are made of teflon, stainless steel or teflon-coated aluminum to resist corrosion. Micro dispensers include one-year warranty and full factory support.



Keypad Functions

0-9	Numeric keys
EXT ON	Turn external port ON
EXT OFF	Turn external port OFF
ESC	Escape – Exit from menu
PUMP ON/OFF	Turns pump on for continuous operation. Press again to turn off.
REMOTE/LOCAL	Allows controller to be operated by remote computer or by keypad.
SYS CONF	System Configuration – Sets operating parameters
DISP VOL	Dispense by specified volume, from 10 to 999 μ l.
DISP COUNT	Dispense by counting pump revolutions, from 5 to 999.
DISP TIME	Dispense by time, from 100 to 9,999 milliseconds
REV	Reverses direction of pump in volume, count and time functions

Options

- Capability to dispense into a Millipore® Vacuum base. Includes vacuum control.
- Additional Pump/Controller allows same dispensing unit to be used with viscous *and* aqueous solutions.
- Custom formats available.

For more information, call Brandel at 800-948-6506 or contact your authorized distributor.

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