

PRO LIQUID

Sample Preparation for Analytical Chemistry



DuoDispenser

Semiautomatic Liquid Handling System

DuoDispenser is a semiautomatic diluter and pipetting instrument with digital volume selection. You enter the required volumes via an associated personal digital assistant (PDA).

The two digital pumps have a dispensing range of 1 to 3000 μL each per pump stroke; the volume is freely selectable with a resolution of 12000 steps per full stroke. This volume range offers flexibility for numerous applications.

As well as pipetting operations, DuoDispenser offers dilutions in the range 1:2 to 1:13501 in a single step.

The volume to be dispensed or the dilution ratio can easily be changed by entering the required value on the PDA.

Through the use of specially developed PTFE ball valves the system is completely metal free in the areas in contact with liquids. This opens up numerous possibilities in trace analysis, since many analyses can now be prepared free of contamination using these valves with the DuoDispenser.

DuoDispenser is an ideal, economical accessory for the analytical laboratory for precise, problem-free dispensing and dilution of sample and calibration solutions.

PTFE valves prevent contamination

Accuracy at 1 mL: 0.5 %

Precision: 0.02 %

Universal liquid handling programs

- Filling
- Diluting and mixing
- Pipetting
- Continuous pumping

Liquid volume

1 to 3000 μL per pump stroke

Minimum rinse volume in diluter operation

Dispensing volumes per pump easily entered via an associated personal digital assistant (PDA)



DuoDispenser – Semiautomatic Liquid Handling System



Equipment provided: two different pump combinations are offered as standard; 150 μ L and 1500 μ L, or 300 μ L and 3000 μ L.

The various dispensing modes are depicted schematically below:

Dilute

Precision pumps in dilution mode.
P1 functions as the sampling pump,
P2 serves as the diluent pump.
Applications: Dilution, mixing in the ratio
1:2 to 1:13501 (P2 with 1500 μ L)



Pipet

Precision pumps in pipet mode.
P1 functions as the sampling pump,
P2 serves as the air pump.
Application: Pipetting of liquids



Single

Precision pumps in single operation.
Each pump operates as a dispenser.
Applications: Addition of reagents



Sync + Run

Precision pumps in continuous operation.
Both pumps operate as dispensing pumps.
Application: Pipetting of liquids

To operate the system via the PDA you simply select the required dispensing mode and enter the corresponding volume combinations.

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ProLiquid GmbH

Heiligenbreite 19, D-88662 Überlingen

Phone: +49 (0)7551/916260, Fax: +49 (0)7551/916261

E-mail: infobox@proliquid.com

Internet: www.proliquid.com

