

Multidrop Micro is a stand-alone instrument but also has the flexibility to be integrated easily with robotic systems. Using specifically developed technology Multidrop Micro rapidly and accurately dispenses microvolumes of 1-50 µl into 384- and 96-well microplates. Using increments of just 1 µl Multidrop Micro provides a new level of precision for your dispensing needs. It is easy to select the exact volumes you require with the conventional onboard switches.

Product Features

Robot Compatibility

- The RS-232 serial port allows integration with robotic plate handling devices facilitating greater flexibility and higher throughput for your research
- Time-controlled dispensing can also be accessed via the RS-232 serial port
- Optional self draining priming vessel and optional tubing holder for the reagent tubings aid robotic applications

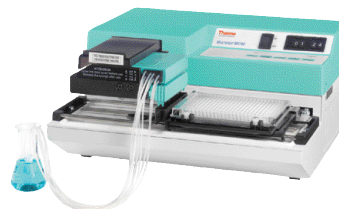
Autoclavable Dispensing Cassette

- The specially designed microvolume dispensing mechanism features an 8-channel detachable and autoclavable dispensing cassette to ensure sterile

conditions and avoid cross contamination

Fast Bulk Reagent Dispensing

- Fast and continuous bulk reagent dispensing of 1-50 µl directly from single or multiple reagent bottles
- Dispensing of 1 µl into each well of a 96-well plate takes 5 seconds, 14 seconds for a 384-well plate
- Up to 8 different liquids can be dispensed into any number of columns in 96- and 384-well microplates using the 8-channel dispensing cassette
- All reagent lines can be back-flushed into the reagent bottle, minimising the loss of expensive reagents



Dispensing cassette

Technical Specifications

Model

Dimensions H X W X D mm
Weight Kg
Interface

Multidrop Micro

155 x 310 x 320
7.1
Serial RS-232C

Dispensing Volume
Dispensing Speed

384 well dispensing

1-50µl, with 1µl step resolution
14 s/1µl, 17 s/5µl, 21 s/10µl,
30 s /20µl, 55 s/50µl

96 well dispensing

1-50µl, with 1µl step resolution
6 s/1µl, 7 s/5µl, 8 s/10µl,
10 s/20µl, 17 s/50µl

Dispensing Accuracy*
Dispensing Precision*

2µl ± 10%, 10µl ± 5%, >10µl ± 5% (typical)
2µl CV ≤ 5%, 10µl CV ≤ 3%, > 10µl CV ≤ 3%

Autoclaving Conditions of the Dispensing Cassette

Pressure
Temperature
Time
Autoclavings

1 bar
121°C
20 mins
10 times

Control Panel

Keys
Selection Switches

Start, prime/drop, empty, step, stop
Plate (=96/384), volume µl, col (=column)

Ordering Information

Cat No

Description

Power Requirements

5840230
5840237

Multidrop Micro
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200-240 V, 50/60Hz, nominal (operating range 180-256 V), 100 VA max
100-120 V, 50/60Hz, nominal (operating range 90-130 V), 100 VA max

Options and Accessories

24073290 Multidrop Micro molded tip dispensing cassette
24073295 Multidrop Micro metal tip dispensing cassette

* Dispensing accuracy and precision are valid at 22°C ± 2°C with deionised distilled water.