

MD-E-4000

MICRODROP OEM CONTROLLER

to use with Micro dispenser heads or Autopipettes



OUR SYSTEM MD-E-4000

Designed as a cartridge housing for 19" subracks, the MD-E-4000 controls 1x or 2x of:

- all of our Microdrop dispenser heads
- all of our Autopipettes.



- Non-Contact dispensing
- Wide range of dispensable liquids and materials (0.4 to ~10,000 mPas)
- Presice and repeatable single droplet with a diameter of 45 μm up to 120 μm^*



DISPENSABLE LIQUIDS

- Aqueous (protein) liquids
- Medical coatings
- Cell suspensions

Control the system

- manually with Microdrop Software via user interface or
- externally via appropriate commands.
- Reliable single droplet spotting by using visual control of parameter settings
- Only high inert materials are in contact with the liquid
- Integration into exisiting positioning system possible
- Conductive inks
- Adhesives
- Lubricants



Advancing the Art of Microdispensing

microdrop TECHNOLOGIES

MICRODROP OEM CONTROLLER

TECHNICAL DATA OF THE MD-E-4000

Versions	to drive 1x or 2x Micro dispenser heads or Autopipettes - option of pulse modulation mode - option of pressure control unit	۰	•
Dimension	MD-E-401x (optional with pressure control): 3HE/12TE; MD-E-402x: 3HE/24TE	1. € € € open Binke	
Weight	~ 3 kg	Constant Sector Sector	*

SHORT FACTS

Micro dispenser heads



Autopipettes



Liquid viscosity	0.4 - 10,000 mPas	Liquid viscosity	0.4 - 20 mPas	
Inner nozzle diameter (Standard)	50 μm, 70 μm or 100 μm	Inner nozzle diameter (Standard)	50 μm or 70 μm	
Droplet diameter in flight	~45 - 120 μm* dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	Droplet diameter in flight	~45 - 90 μm* dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	
Single droplet volume	~50 - 900 pl* dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	Single droplet volume	~50 - 380 pl* dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	

COMMON APPLICATION FIELDS



We are there for you. Contact us.

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