

MPC-200/MPC-385/MPC-325 MULTI-MICROMANIPULATOR SYSTEMS



(Shown: MPC-385-2)

Neurobiological experiments are becoming more complex. Many require multiple manipulators with control units that quickly become space and/or cost prohibitive. The **MPC-200** is the solution you have been asking for. A single controller capable of running 2 manipulators! Sutter Instrument has taken the simplicity of the **MP-225** controller and expanded it to run two manipulators from a single controller/ROE. The **MPC-200** works with one or two of our world-renowned mechanicals, the **MP-285(MPC-385)** or the **MP-225 (MPC-325)**.

If two manipulators aren't enough, a second controller can be daisy chained to allow the single **ROE-200** to move up to four manipulators. Thus the system can be easily expanded to control highly sophisticated experiments.

The Sutter **MPC-200** is electrically quiet. Unique to the **MPC-200** is our multi-unit controller which employs linear output circuitry to minimize electrical noise. Sutter adds additional manipulators to the same controller without requiring potentially noisy chopper drives.

Faster automated pipette exchange.
The **MPC-200** has faster "Home" and "Work Position" moves for quicker pipette exchange. Automation is set up and run via the same interface used in the **MP-225** controller; however, the speeds of the automated movement are much faster.

Accelerated manual mode.
For users who prefer manual pipette exchange we have added "Accelerated Mode" to the ROE. Using Accelerated Mode, the user can

make quick manual moves in and out of a setup. Accelerated Mode amplifies the speed attainable in a manual move by smoothly accelerating to the maximum speed during sustained, fast turns of the ROE. Accelerated movement ends as soon as the user stops turning the knob. This mode can be fully disabled for those who feel the need for direct control of the pipette.

To provide the ultimate in flexibility, the **MPC-200** can be purchased separately or as basic systems such as the **MPC-385** and **MPC-325**. Additional component pieces can be added at any time, allowing the user to develop a system tailored to his or her particular needs. The controller is self-detecting so there is no need for manual configuration of the components.

FEATURES

> MPC-200

Single controller and ROE will run two stepper motor drive manipulators

Self-detecting, daisy-chain capability allows control of four manipulators from one **ROE-200**

User-friendly interface: single button access to all major functions

New Accelerated Mode for fast, manual manipulator movement
Easy toggle selection of Mode (speed/resolution, pulsed diagonal, Accelerated Mode)

Display indicates X, Y, Z coordinates, Mode, active manipulator

Robotic Home and Work Position moves for easy automated pipette exchange

Faster robotic moves than previous versions

Definable 4th axis for coaxial pipette movement, angle selected by DIP switches

Simple USB interface

Toggle switch selects which manipulator is connected to input device

LED and display indicate active manipulator

Ultra-low drift, ultra-smooth movement

(Patents pending)