

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

MPC-385-2/285-2 双电动显微操作器



(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 our world-renowned mechanics, the **MP-285 (MPC-385)**, **MP-225 (MPC-325)** or narrow format **MP-265 (MPC-365)**.

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

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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**, **MPC-365** 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)

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US PRICES
➤ **MPC-200**

*International prices are 5% higher.
Prices subject to change without notice.*

MPC-325

One **MP-225** manipulator mechanical, one **MPC-200** controller and one **ROE-200**. Also includes mounting adapter plate, rod holder, hinged headstage mount, 4 inch dovetail extension, manipulator and ROE connecting cables, power cord and manual*

MPC-385

Same as above, but with one **MP-285** manipulator mechanical substituted for the **MP-225** mechanical *

MPC-325-2

Same as the **MPC-325**, but with two **MP-225** manipulator mechanicals *

MPC-385-2

Same as the **MPC-385**, but with two **MP-285** manipulator mechanicals *

MPC-200-ROE

Consists of the **MPC-200** controller and **ROE-200**. This "system" is made available at a special price for those who wish to use previously purchased Sutter manipulators with the newer controller system or to use the **MPC-200-ROE** to control other devices. Includes cable to connect ROE to controller, power cord and manual

* *Indicate right- or left-handed set-up when ordering*

COMPONENTS**MPC-200**

Controller box alone. Purchase this if you intend to daisy-chain two controllers to one **ROE-200**. In this configuration, up to 4 manipulators can be controlled by a single **ROE-200**. NOTE: This is not a stand-alone device. In order to function, the **MPC-200** must be connected to a second **MPC-200** with **ROE-200** attached or be connected to its own **ROE-200**. Includes daisy chain cable, power cord and manual

ROE-200

This is the ROE alone. Provides user input to one or more **MPC-200** controllers. This component is intended for users who have an existing four-manipulator **MPC-200** system with a single **ROE-200** and wish to split it into two independent two-manipulator systems. Includes cable to connect ROE to controller

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US PRICES (CONTINUED)**> MPC-200****MP-285/M \$ 5,500**

The **MP-285** manipulator mechanical alone. This is the mechanical from the **MP-285**, the manipulator system that made Sutter the world leader in motorized manipulators for electrophysiology. Over 2000 units, many of which have been in use over 5 years, allow us to stand behind the reliability of this design. It is widely known for its smooth movement and low drift. Includes mounting adapter plate, rod holder, 4in. dovetail extension, hinged headstage mount and cable to connect manipulator to controller *

MP-225/M \$ 4,750

The **MP-225** manipulator mechanical alone. This is the mechanical unit from the Sutter **MP-225**. It features modular construction, lower cost, smooth movement and low drift. Includes mounting adapter plate, rod holder, 4 inch dovetail extension, hinged headstage mount and cable to connect manipulator to controller *

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US PRICES
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ACCESSORIES

X285204	4 inch dovetail extension
X285210*	Mounting adapter plate
285RBI	Rotating base for MP-285
225RBI	Rotating base for MP-225
X285300	Right angle adapter
X285305	Z-axis vertical extension
X285310	Z-axis horizontal extension

For detailed information on mounting our micromanipulators, refer to the Mounting Systems section or phone for assistance.

** For use with MT and MD series stands and platforms, or any surface with 1 inch centered holes.*

SPECIFICATIONS

> MPC-200

Resolution and Full Travel

Minimal microstep size is 62.5 nanometers per microstep. Display has single micron resolution. Full travel is 25mm in each axis.

Maximum Speed

MP225
mechanical 3mm/sec.
MP285
mechanical 5mm/sec.

DRIFT

< 1 micron/hr
Drive Mechanism

DIMENSIONS

Controller
16in x 11in x 3.5in
41cm x 28cm x 9cm

ROE

10in x 6in x 4in
25cm x 15cm x 23cm

WEIGHT

Controller
25lbs 11kg

ROE
3.5lbs 1.6kg

Electrical

115/230 Volts
50/60 Hertz power line

RoHS Compliant



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