

# MP-MC

## Mini Peristaltic Multi-Channel Pump

### 2-Channel and 4-Channel Configurations Available

The MP-MC Mini Peristaltic Multi-Channel Pump is a compact peristaltic pump with integrated stepper motor and electronic control. It is ideal for precise perfusion in space-constrained setups such as isolated organ systems, electrophysiology imaging, or other laboratory setups.

The MP-MC pumps offer smooth flow with low pulsation and flexible control options. Both can be externally controlled by an analog voltage (0-5 or 0-10V) and, when paired with our APT300 pressure transducer, TAM-D amplifier and SCP control module, allow one to perform constant pressure perfusion. The flowrate in such a setup can be calibrated and displayed on the SCP module. Turnkey setups for a variety of applications are available.

### Two configurations available:

- **MP-MC2:** Two-channel configuration supporting two tubes.
- **MP-MC4:** Four-channel configuration supporting four tubes.



**MP-MC4**

## Reliable Flow, Day after Day

- 6-roller pump head
- Low audible noise
- Ground connector for applications sensitive to electrical noise
- Adjustable speed via potentiometer on the top panel or external control 0-5V or 0-10 V
- 26 sizes of color-coded 3 stop collared pump tubing: 0.89–3.15 mm ID; wall thickness 0.8–1.0 mm (see “Compatible Tubing” table)
- Max flow: 40 mL/min, max speed: 100 RPM
- Power supply: 24VDC / 1.25A
- Compact design
- Direction and start/stop control via switches
- Universal 115/230 VAC power supply: 24VDC / 1.25A exchangeable connectors for EU, USA, China, and UK

## Ordering Information

Product Description	Part Number
MP-MC2 2-Channel Mini Peristaltic Multi-Channel Pump	735360
MP-MC4 4-Channel Mini Peristaltic Multi-Channel Pump	735361

## Specifications

MP-MC2/4 Mini Peristaltic Multi-Channel Pump	
<b>Pump model</b>	MP-MC2/4 Mini Peristaltic Multi-Channel Pump
<b>Number of channels</b>	MP-MC2: 2 MP-MC4: 4
<b>Number of rollers</b>	6
<b>Flow rate range</b>	0.004–40 mL/min (depending on tubing and medium)
<b>Maximum RPM of pump</b>	100 RPM
<b>Step resolution</b>	0.1 RPM
<b>Tube size (inner diameter)</b>	0.89–3.15 mm (see “Compatible Tubing” table)
<b>Computer control</b>	No
<b>Analog signal input</b>	BNC socket 0–5V or 0–10V
<b>Power</b>	Wide range power supply 110–230 V, 50/60 Hz, exchangeable plug adapters for EU, USA, China, and UK
<b>Weight</b>	2.5 kg (5.5lbs)
<b>Dimensions</b>	12.5 x 12.5 x 20 cm (5 x 5 x 7.8 in)

## Compatible Tubing

3 Stop E-Lab Pump Tubing Part Number	Color Code	Tubing ID [mm]	Flow Rate Range* (ml/min)
731816	orange-black	0.13	0.004 - 0.2
731817	orange-red	0.19	0.0044 - 0.22
731818	orange-blue	0.25	0.008 - 0.4
731819	orange-green	0.38	0.0168 - 0.84
731820	green-yellow	0.44	0.024 - 1.2
731821	orange-yellow	0.51	0.03 - 1.5
731822	white-yellow	0.57	0.04 - 2
731823	orange-white	0.64	0.52 - 2.6
731824	black-black	0.76	0.07 - 3.5
731825	orange-orange	0.89	0.092 - 4.6
731826	white-black	0.95	0.106 - 5.3
731827	white-white	1.02	0.122 - 6.1
731828	white-red	1.09	0.136 - 6.8
731829	red-red	1.14	0.146 - 7.3
730126	red-grey	1.22	1.6 - 8
731830	grey-grey	1.3	0.176 - 8.8
731831	yellow-yellow	1.42	0.2 - 10
731832	yellow-blue	1.52	0.22 - 11
731833	blue-blue	1.65	0.246 - 12.3
731834	blue-green	1.75	0.27 - 13.5
731835	green-green	1.85	0.296 - 14.8
731836	purple-purple	2.06	0.35 - 17.5
731837	purple-black	2.29	0.42 - 21
731838	purple-orange	2.54	0.52 - 26
730155	purple-white	2.79	0.62 - 31
731839	black-white	3.17	0.8 - 40

\*Per channel flow rate range using designated tubing for speeds of 2-100 RPM.



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