

# uMc automated pressure control

Designed for automation in neuroscience



**Automate frequent tasks in patch clamp recordings.  
Make experiments more reproducible.**

**Fully integrated** - allowing easy setup and control from either the touch screen unit or through the SDK for advanced automation.

**Closed-loop control** - bringing the accuracy and repeatability required for reproducible and reliable results.

**Full control** - fast switching between different pre-set pressure levels as well as to user applied pressure allows for the highest possible control over your work.

**Compact** - with no need for 19" rack mounted devices or controllers, the uMc range is compact and easy to position around your existing setup.



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## uMc automated pressure control

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### uMc-PPC – automated patch clamp range

The uMc-PPC pressure controllers are designed to simplify and automate frequent tasks in patch clamp experiments, while enabling more reproducible experiments. From forming a seal, over breaking into a cell, to automatic cleaning of patch pipettes.

#### Specifications

<b>Channel number:</b>	2, 4, or 8 as desktop units
<b>Pressure range:</b>	up to $\pm 100$ kPa range
<b>Resolution:</b>	10 Pa
<b>Absolute accuracy:</b>	0.75% FS
<b>Repeatability:</b>	0.4% FS



### uMc-CLN – pipette cleaning range

When full automation of patching is not needed, the uMc-CLN pressure controllers are designed to make automatic cleaning of patch pipettes fast and easy. Making it possible to patch up to 100 cells without changing the pipette.

#### Specifications

<b>Channel number:</b>	2, 4, or 8 as desktop units
<b>Pressure range:</b>	up to $\pm 100$ kPa range



### uMc-PRF-VAC – pressure pre-regulator

The uMc-PRF-VAC is designed to allow preregulation of pressure and vacuum generation. A pressurised supply is required.

#### Specifications

<b>Require input pressure:</b>	+400 kPa
<b>Require vacuum:</b>	n/a
<b>Output pressure range:</b>	$\pm 80$ kPa



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