

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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Trusted by customers worldwide



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

Channel number:	2, 4, or 8 as desktop units
Pressure range:	up to ± 100 kPa range
Resolution:	10 Pa
Absolute accuracy:	0.75% FS
Repeatability:	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

Channel number:	2, 4, or 8 as desktop units
Pressure range:	up to ± 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

Require input pressure:	+400 kPa
Require vacuum:	n/a
Output pressure range:	± 80 kPa



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