



tethaPatch (Model SDx-R2)

Tethered Membrane Technology!



tethaPatch showing tethaPlate in place, with ER466 Potentiostat

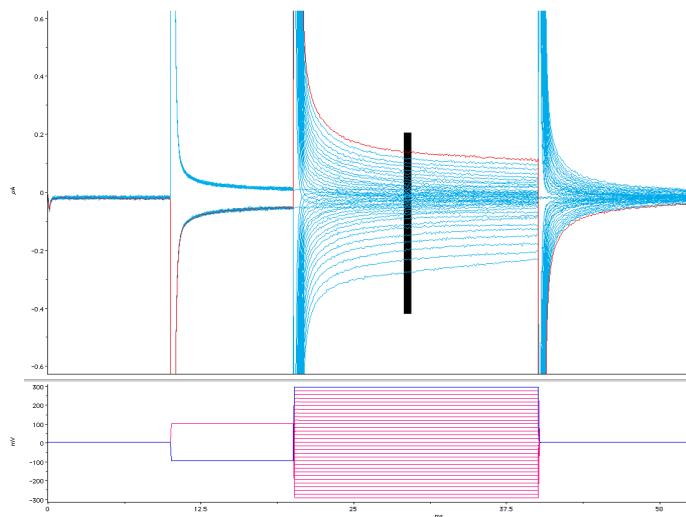
- Compatible with EA163 & ER466 Potentiostats
- Low noise, large ionic currents
- Scope software graphs and tabulates data
- Measures from 6 sample chambers

Description

The SDx **tethaPatch**[™] (SDx-R2) provides connectivity from a 6-chamber **tethaPlate**[™] sample cartridge (SDx-T10) to a potentiostat or voltage clamp system. Ideal for pulsed DC studies of embedded ion channel proteins, especially those for voltage gated or transient ion channels.

Each experiment is conducted on millions of 'parallel' ion channels giving a large total ion current, negating the need for the high gain amplifiers and complicated electronics typical of single channel recording techniques, such as patch clamping. Moreover the use of proteins grown by bacterial culture, and purified by modern proteomic methods, ensures that the response is from a single type of ion channel, unlike the results from whole cell, or oocyte, voltage clamping.

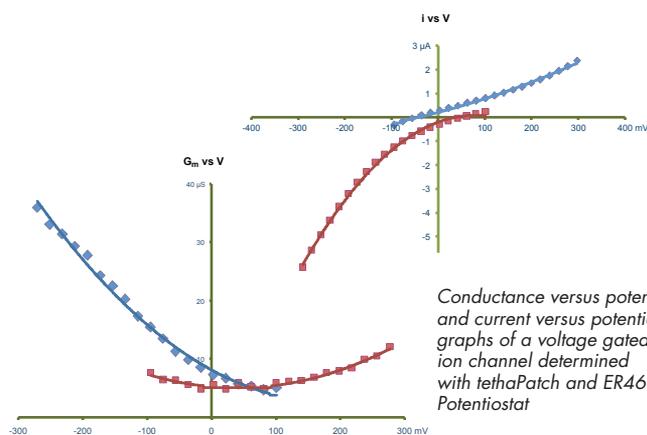
Data can be easily exported to Excel or similar software for dose response or other calculations.



Scope software (supplied with ER466 Potentiostat) performs voltage clamp experiments

Applications

- *Proteomics*: check protein fractions to determine membrane compatibility and ion channel activity.
- *Pharmacology*: Screening assays and dose/response experiments on ion channel toxins, blockers, and activators.
- *Electrophysiology*: voltage clamp experiments to determine voltage-gated and transient ion channel behaviour.



Conductance versus potential, and current versus potential, graphs of a voltage gated ion channel determined with tethaPatch and ER466 Potentiostat

Specifications

Channels:	6, independently selectable
Connectors:	Three 2 mm sockets
Dimensions (h x w x d):	50 x 129 x 168 mm (2" x 5" x 6.6")
Weight:	470 g (~1 lb)
Operating conditions:	0 to 35 °C 0 to 90% humidity (non-condensing)
eDAQ reserves the right to alter these specifications at any time.	

WARRANTY: The tethaPatch unit is supported by a one year warranty

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