



The Model 2400 is a low noise, full featured intracellular/extracellular amplifier designed for voltage clamping using patch electrodes on single channels or whole cells. Its unique design allows fast intracellular current clamp measurements with sharp electrodes. Advanced circuit design techniques using field programmable gate arrays eliminated noisy microprocessors.

Amplifier current gain is extremely flexible as it can accept any of four resistive feedback probes. Each probe has two feedback resistors selected from the following values: 10M $\Omega$ , 50M $\Omega$ , 100M $\Omega$ , 1G $\Omega$ , 5G $\Omega$ , and 10G $\Omega$ . The wide range of feedback resistors means currents can be recorded with outputs of 1mV/nA to 10mV/fA. The standard probe sent with each unit is the 100M $\Omega$  / 10G $\Omega$  version, but other values can be selected.

**Features:**

- o Full Function Patch Clamp Amplifier for both whole cells and patches
- o True Current Clamp is 100 % stable with bandwidth of 200 kHz.
- o Switchable Dual Resistive Feedback Headstage
- o Capacity, series resistance, and whole cell compensation
- o 4-pole Low-Pass Bessel Filters
- o Internally generated test signals
- o Telegraph outputs for all major front panel controls
- o Independent hold, offset, and tracking circuitry
- o Displays command potentials, cell currents, and voltages

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