Technical Specifications

EPC 7 PLUS Main Unit:

Dimensions Main Unit (D x W x H): (31.1 x 48.3 x 14.5) cm, (12.3 x 19.0 x 5.7) inch Weight: 7.6 kg / 16.5 lbs Mounts in a 19" rack. Operates on standard 115 V / 230 V.

EPC 7 PLUS Headstage:

Dimensions ($D \times W \times H$): (70 x 40 x 19) mm (2.75 x 1.57 x 0.75) inch

Current measuring resistors:

50 G (high range) 500 M (medium range) Largest measurable currents: 200 pA (high range) 20 nA (medium range) Noise measured with open input: (8-pole Bessel filter, high range) up to 1 KHz: < 30 fA RMS

up to 3 KHz: < 85 fA RMS up to 10 KHz: < 350 fA RMS

Current Monitor Signal:

Gain: 0.5 to 1000 mV/pA, switch-selected Maximum bandwidth: 100 KHz (medium range) 60 KHz (high range)

Filters:

The Current Monitor signal of the EPC 7 PLUS is filtered by a 7-pole Bessel filter from 0.1 to 30 kHz in 11 steps. In the additional 'FULL' setting, a 3-pole Bessel filter is used and the current signal is provided at full bandwidth of the EPC 7 PLUS.

Capacitance Compensation:

Manual adjustment of the fast and slow capacitance cancellation. C-fast: 0 to 10 pF, 0.5 to 5 µs tau C-slow: 0.2 to 10 pF, calibrated 2 to 100 pF, calibrated 10 to 1000 pF Series conductance adjustment: 0.01 to 1 µS

Series Resistance Compensation:

Automatically determined from transient cancellation controls. Fractional compensation: 0 – 90 %

Fax

Email

Phone

Phone

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Fax Email Pipette Offset:

Manual adjustment within a ± 200 mV range.

Holding Potential:

Hardware controlled holding potential with a ± 500 mV range.

Current Clamp CC Command Resolution:

1 pA/mV input; up to ±1 nA

Noise Monitor Facility:

LCD displays RMS current at gain setting of 100 mV/pA in units of fA for checking background noise. The bandwidth is set by the filter frequency.

Related Products

LIH 1600

16-bit multi-channel data acquisition system.

PATCHMASTER

Multi-channel patch clamp data acquisition and analysis software for Windows and Mac OS.

FITMASTER

Data analysis software supporting PATCHMASTER data structure for Windows and Mac OS.

PULSE/PULSEFIT

Patch clamp data acquisition and analysis software for Windows and Mac OS.

EPC 8

Manually and remote controllable patch clamp amplifier.

EPC 10

The fully computer controlled patch clamp amplifier with built-in LIH 1600 interface.

PIP 5

Temperature controlled micro pipette puller.

MIM 4

Motorized 3-axis micromanipulator with video option.

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