



Low Current Pre-Amplifier

I/U converter to be used with
Potentiostat or Patch Clamp Equipment

The input circuitry is contained in a hybrid integrated circuit which optimizes the noise performance of the current to voltage converter. Three feedback resistors can be selected by analog switches.



Technical Specifications:

Current measuring feedback resistors (switched):
50 G Ω , 500 M Ω , 5 M Ω

Maximum input current:
50 G Ω 200 pA
500 M Ω 10 nA
5 M Ω 2 μ A

Noise measured with 8-pole Bessel filter:
(50 G Ω feedback resistor):
DC to 1 kHz. < 30 fA
DC to 3 kHz. < 70 fA
DC to 10 kHz. < 140 fA

Maximum Bandwidth:
100 kHz (500M Ω)
60 kHz (50G Ω)

max Input Voltage:
+/-10 V

Supply Voltage:
+/- 15 V DC
- 6 V DC

Supply current: 25 mA

Input: BNC connector

Case: Aluminum

Dimensions:
65 x 37 x 18 mm
25.6 x 14.6 x 5.1 inch
(L x W x H)

Applications:

- HEKA Patch Clamp Amplifier EPC 7 / EPC 8 / EPC 9
- Low current recording in electrochemical research with PG 310
- SECM (Scanning electrochemical microscope)
- Scanning tunnel microscope