EXT-02 B

Features:

- Two recording channels with stimulus control, differential INPUT(S)
- One power supply for up to four EXT-02 B amplifiers, one REL-08 B and one AUD-08 B system
- Two different OUTPUTS:
  - DC with GAIN x10 and OFFSET control, range ± 500 mV
  - AC with GAIN x10 to x10k, HIGHPASS and LOWPASS filtered
- HIGHPASS filter (AC): 0.1, 1, 10, 30, 100, 300 Hz
- LOWPASS filter (AC): 500, 1k, 3k, 5k, 10k, 20k Hz
- NOTCH filter (AC and DC): 50 Hz or 60 Hz, activated by switch
- MONITORS (telegraphs) for filters and gain
- External STIMULUS input with 2 mm banana jacks, STIMULUS CONTROL with switch or TTL signal
- Data bus connection to AUD-08 B and REL-08 B

Available headstages:

- Standard headstage with one, two or four channels
- Standard headstage with direct stimulation through the same electrode
- Miniature headstage with one, two, four, six or eight channels (via breakout box)
- Miniature headstage with direct stimulation via separate electrode or switchable
- Tetrode miniature headstage with four channels

Ordering

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXB-EXT-02B</td>
<td>Two channel extracellular amplifier (Master System)</td>
</tr>
<tr>
<td>EXB-EXT-02BS</td>
<td>Two channel extracellular amplifier (Slave System)</td>
</tr>
<tr>
<td>EXB-HS</td>
<td>Standard headstage for EXT-02B amplifiers</td>
</tr>
<tr>
<td>EXB-AUD-08B</td>
<td>AUD-08B Desktop Audio Monitor System</td>
</tr>
<tr>
<td>EXB-REL-08B</td>
<td>REL-08B Electrode Resistance Test Unit</td>
</tr>
<tr>
<td>EXB-EH</td>
<td>Electrode holder for EXT-02B headstage (please specify glass diameter)</td>
</tr>
</tbody>
</table>

Technical Data

Input (headstage):

$>10^{12}$ W, range ± 1 V

Differential Input:

CMR >90 dB at 1 kHz (tested with 0 W input resistance)

Input Capacitance:

30 pF

OFFSET compensation:
OFFSET compensation: set by potentiometer, range: ±1 V

HIGHPASS Filter:
single pole, attenuation: -6 dB / octave,
corner frequencies (Hz): 0.1, 1, 10, 30, 100, 300

LOWPASS Filter:
single pole, attenuation: -6 dB/octave,
corner frequencies (Hz): 500, 1k, 3k, 5k, 10k, 20k

GAIN:
rotary-switch 10-100-1k-10k

Output:
range: ±10 V into 1 kW / ±1 V into 50 W

Power Supply:
18V, AC, min. 1.5 A

Dimensions:
305 x 180 x 105 mm³ (W x D x H)

Headstage:
Input (headstage):
>10^12 W, range ±1 V

Headstage Size:
70 x 26 x 26 mm³

Holding Bar:
length: 150 mm; diameter: 8 mm

Downloads

Manuals:
EXT-02F Manual
EXT-02B Manual
EXT-T2 Manual
EXT-16DX Manual

Brochure:
EXT Brochure

References:
EXT-Reference List
EXT-02F Reference List
EXT-16DX Reference List

© npi electronic - Last update of this page: 24.03.2015