Electronic Supplies for Piezomechanics:

Technical Data
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Analog Amplifiers SVR

Low voltage/high voltage types available
Lowest noise levels
Semibipolar operation
for enhanced actuator stroke/force generation

SVR 150/1 (single channel)
SVR 150/3 (3 independent channels)

Voltage range:
–30 V thru +150 V (semibipolar)
Manual setting of DC-Offset
(superimposed to external signal)
Variable attenuation

Input:
Signal: +/- 5 V (+/- 10 V with attenuation)
Impedance: 5 kOhms
Connector: BNC

Output:
Connector: BNC
Voltage total: –30 V thru +150 V
DC-Offset range: –30 V thru +150 V
Gain: 30 (without attenuation)
Max. current: 60 mA
Noise: 0.3 mVpp (for 4.7 µF load)
Display: LCD
Dimensions W x D x H (mm):
single channel: 165 x 200 x 65
3-channels: 260 x 320 x 155
Weight:
single channel: 1.75 kg
3-channels: 4.7 kg

Additional features of 3 channel SVR 150/3 amplifier:
Monitor BNC output per channel:
shows 1:1000 piezo voltage
LC-Display per channel
SVR 200/1 (single channel)
SVR 200/3 (3 independent channels)

Voltage range:
–50 V thru +200 V

Manual setting of DC-Offset
(superimposed to external signal)

Variable attenuation

Input:

Signal: +/-5 V (+/-10 V with attenuation)
Impedance: 5 kOhms
Connector: BNC

Output:

Connector: BNC
Voltage total: –50 V thru +200 V
DC-Offset range: –50 V thru +200 V
Gain: 40 (without attenuation)
Max. current: 45 mA
Noise: 1 mVpp (for 4 µF load)
Display: LCD

Dimensions W x D x H (mm):
single channel: 165 x 200 x 65
3-channels: 260 x 320 x 155
Weight:
single channel: 1.75 kg
3-channels: 4.7 kg

Additional features of 3 channel SVR 200/3 amplifier:

Monitor BNC output per channel:
shows 1:1000 piezo voltage
LC-Display per channel
Bipolar Analog Amplifiers SVR

For operation of piezo bimorphs
Bipolar stacks
Shear elements
Other symmetric voltage activation

SVR 150bip/1 (single channel)
SVR 150bip/3 (3 independent channels)

Voltage range:
−150 V thru +150 V
Manual setting of DC-Offset
(superimposed to external signal)

Input:
Signal:  +/–5 V (+/–10 V with attenuation)
Impedance:  5 kOhms
Connector:  BNC

Output:
Connector:  BNC
Voltage total:  –150 V thru +150 V
DC-Offset range:  –150 V thru +150 V
Gain:  30 (without attenuation)
Max. current:  30 mA
Noise:  0.3 mVpp (for 4.7 µFarad load)
Display:  LCD
Dimensions W x D x H (mm):
single channel:  165 x 200 x 65
3-channels:  260 x 320 x 155
Weight:
single channel:  1.75 kg
3-channels:  4.7 kg

Additional features of 3 channel SVR 150bip/3 amplifier:
Monitor BNC output per channel:
shows 1:1000 piezo voltage
LC-Display per channel
**Input:**

- **Signal:** +/–5 V (+/–10 V with attenuation)
- **Impedance:** 5 kOhms
- **Connector:** BNC

**Output:**

- **Connector:** BNC
- **Voltage total:** 0 V thru +150 V
- **DC-Offset range:** 0 V thru +150 V
- **Gain:** 30 (without attenuation)
- **Peak current:** 1200 mA
- **Average current:** 350 mA
- **Noise:** 20 mVpp (for 4.7 µFarad load)
- **Display:** LCD
- **Dimensions W x D x H (mm):** 260 x 320 x 165
- **Weight:** 6.8 kg
LE 200/070 EBW

Voltage range:
0 V/+200 V

Manual setting of DC-Offset
(superimposed to external signal)

Variable attenuation
70 kHz bandwidth (-3 dB)

Input:
Signal:  +/-5 V (+/-10 V with attenuation)
Impedance:  5 kOhms
Connector:  BNC

Output:
Connector:  BNC
Voltage total:  0 V thru +200 V
DC-Offset range:  0 V thru +200 V
Gain:  40 (without attenuation)
Peak current:  700 mA
Average current:  250 mA
Noise:  20 mVpp (for 4.7 µF load)
Display:  LCD
Dimensions W x D x H (mm):
320 x 260 x 165
Weight:  7 kg
PIEZOMECHANIK supplies a wide range of connecting systems, adaptors, extension cable to make the installation and compatibility of components as easy as possible.

When a complete actuator/amplifier system is ordered, the actuators will be equipped with the plugs corresponding the amplifier’s connector.

Further adaptors are available for the combination of different connector systems.

### Adaptors:

<table>
<thead>
<tr>
<th>Plug</th>
<th>Coupler</th>
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<tbody>
<tr>
<td>BNC</td>
<td>LEMOSA 00.250 (low voltage systems)</td>
</tr>
<tr>
<td>LEMOSA 00.250</td>
<td>BNC</td>
</tr>
<tr>
<td>LEMOSA 05.250</td>
<td>BNC</td>
</tr>
</tbody>
</table>

**Coaxial cable RG 178 with plug – one end blunt, length 1.5 m standard, other lengths on request**

- LEMOSA plug 00.250
- LEMOSA plug 05.250
- BNC

**Extension cables with plug and coupling end, length standard 2 m, other lengths on request**

- LEMOSA 00.250 system
- LEMOSA 05.250 system

**Extension cables combining different connector systems e.g. BNC-LEMOSA on request.**