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Find the *Physik Instrumente E-463* at our website: *Click HERE*

This product family has been replaced by the following new product:
>> E-464 PICA™ HVPZT Piezo Amplifier, 3 Channels

E-463

HVPZT Piezo Amplifier, 3 Channels



Ordering Information

E-463.00
HVPZT Amplifier, 3 Channels, Bench-Top

Ask about custom designs!

- **3 Independent Channels**
- **3 x 6 W Peak Power**
- **3 LED Voltage Displays**
- **Output Voltage Range 0 to -1500 V**

The E-463.00 is a bench-top piezo driver for high-voltage PZTs. It contains three independent low-noise, 4-quadrant amplifiers that can output and sink a peak current of 4 mA and an average current of 3 mA each. The E-463.00 can be operated in two ways:

I. Manual Control:

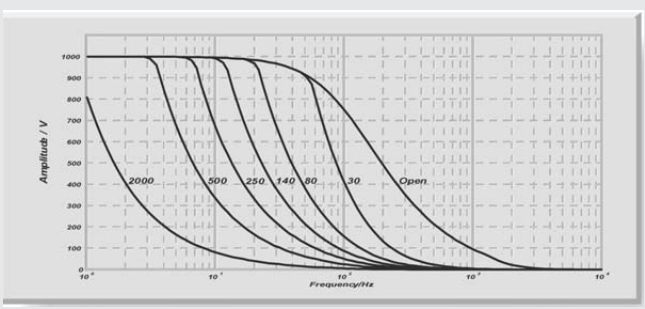
Output voltage for each channel can be set by a 10-turn DC-offset potentiometer in the range of 0 to -1000 V.

II. External Control:

Output voltage is controlled by an analog signal applied to the BNC inputs, ranging from 0 to 10 V. Multiplying by the gain factor of -150, an output voltage range of 0 to -1500 V results. The DC-offset potentiometer adds a DC bias to the input, allowing continuous shifting of the input range between 0 V to +10 V and -6.66 V to 3.33 V (see page 6-52).

Three $3^1/_2$-digit LED displays show the output voltage of each individual channel. For frequency response with selected HVPZTs, see graph below.

For computer-controlled closed-loop positioning electronics, refer to the E-500 system starting on page 6-18.



E-463, frequency response with various PZT loads. Values shown are capacitance in nF, measured in actual PZT.

Technical Data

Models	E-463.00
Function	Power amplifier
Channels	3
Maximum output power	6 W / channel (see page 6-52)
Peak output current <5 ms	4 mA / channel
Average output current >5 ms	2 mA / channel
Current limitation	Short-circuit proof
Voltage gain	-150 ±1
Polarity	Negative
Control input voltage	0 to +10 V
Output voltage	0 to -1500 V
DC-offset setting	0 to -1000 V at output with 10-turn pot.
Input impedance	1 MΩ
Display	3 x $3^1/_2$-digits, LED
Control input sockets	3 x BNC
PZT voltage output sockets	3 x LEMO ERA.0A.250.CTL
Dimensions	236 x 88 x 273 mm + handles (see page 6-10)
Weight	4.3 kg
Operating voltage	90-120 / 220-240 VAC, 50-60 Hz (linear P/S)

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