

PICA Piezo Amplifier

Compact Benchtop Device or OEM Module



E-462

- Compact single-channel amplifier for piezos
- Output voltage range 10 to 1000 V
- Mains or 12 V battery operation
- For static or quasistatic operation

Specifications

	E-462.00	E-462.OE1
Function	Power amplifier for PICA high-voltage piezo actuators, benchtop device	Power amplifier for PICA high-voltage piezo actuators, OEM version
Amplifier	E-462.00	E-462.OE1
Amplifier channels	1	1
Output voltage	10 to 1000 V	10 to 1000 V
Average output power	0.3 W	0.3 W
Peak power, < 5 ms	0.5 W	0.5 W
Max. average output current	0.3 mA	0.3 mA
Peak current, <5 ms	0.5 mA	0.5 mA
Current limitation	Short-circuit proof	Short-circuit proof
Ripple, noise, 0 to 100 kHz	50 mV _{rms} 50 mV _{pp} (100 nF)	50 mV _{rms} 50 mV _{pp} (100 nF)
Voltage gain	100 ±1	200 ±1
Input impedance	10 kΩ	10 kΩ
Frequency response	For static and quasistatic applications only	For static and quasistatic applications only
Input voltage range	0 to 10 V	0 to 5 V

Interfaces and operation	E-462.00	E-462.OE1
Piezo connection	LEMO EGG.0B.701.CJL1173	LEMO PHG.0B.701.CJL1173 D42
Analog input	BNC	Header pins
DC offset setting	1-turn potentiometer, adds 0 to 10 V to the input voltage	–

Miscellaneous	E-462.00	E-462.OE1
Operating voltage	12 V DC, stabilized ($\pm 10\%$)	12 V DC, stabilized ($\pm 10\%$)
Max. current consumption	90 mA	90 mA
Power Supply	Plug-in power supply	–
Operating temperature range	5 to 50 °C (above 40 °C, power derated)	5 to 50 °C (above 40 °C, power derated)
Mass	0.5 kg	0.25 kg
Dimensions	205 mm × 150 mm × 73 mm	67 mm × 38 mm × 20 mm

Ordering Information

E-462.00

HVPZT Piezo amplifier, 10 to 1000 V, benchtop device

E-462.OE1

HVPZT Piezo amplifier module, 10 to 1000 V, OEM Version