HVP 300/20

Voltage amplifier for pulse generation

Image: HVP 300/20

Concept:

The high voltage pulser **HVP 300/20** has been designed to drive special Piezocomposite Actuators from **piezosystem jena** or other suitable loads with high charging currents for pulse-wise operation in a kind of "on-off" square-wave mode.

Specials:

The basic principle of the **HVP 300/20** is the charging of a capacitor (C»100 µF) with the necessary voltage. If triggered the capacitor will be disconnected from the power supply and discharged instantly by the Piezocomposite Actuator. A current of **20 A** flows for a short time. The voltage at the load **increases in a few µs** on the pre-set value.
The load can be connected via LEMO or laboratory plugs (SLS200). Alternative at the SLS200 plugs an ohmic resistor can be applied to adjust the rise time.

Product highlights:

- High charging current for short rise times
- Alternative ohmic resistor to adjust the rise time

Application examples:

- Material testing
- Calibration of sensors
- Rapid actuation of ultra fast valves

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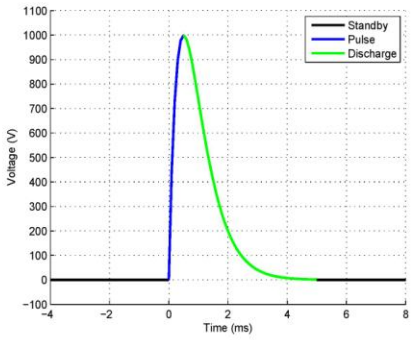
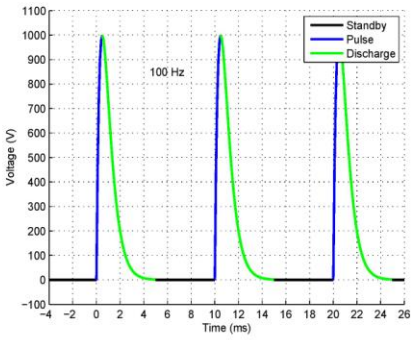
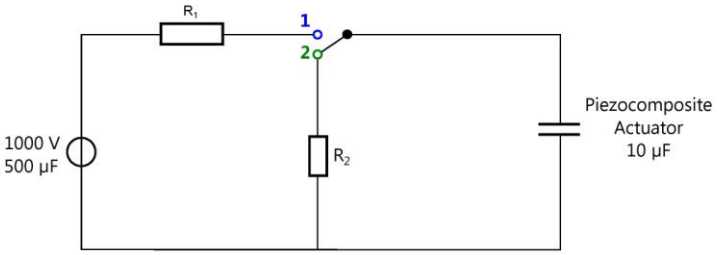
Basic principle of HVP amplifiers





Switch Position
1: Pulse
2: Discharge



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Technical data

	unit	HVP 300/20
output		
voltage	V	+40 ... +300
max. current	A	20
charging resistor	Ω	15
plug	-	LEMO, SLS200
input		
voltage range „extern“	V	0 ... +10
voltage range “MOD.IN”	V	LOW = 0; HIGH = 5
input resistance	kΩ	1
plug	-	BNC
monitor output		
voltage range	V	0 ... +3
plug	-	BNC
voltage supply		
mains voltage	V AC	230 ±10% @50/60 Hz
power switch	-	trigger switch/front panel
fuse	-	2 micro fuses 5 x 20 anti-surge fuse means 1 A integrated into main socket
LED's	-	HV : the high voltage output is activated IL: automated switching off of the voltage output because of overheat or overload
dimensions (w x h x d)	mm/“	260 x 160 x 270 / 10.2 x 6.3 x 10.6

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