

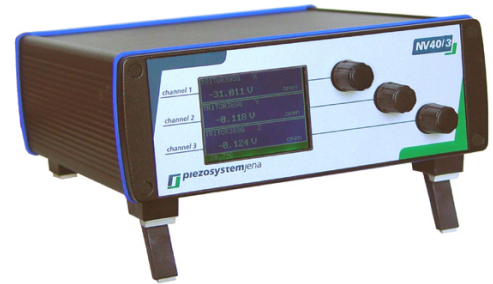
## NV 40/3

### 3 channel piezo amplifier

- ◆ **3-channel piezo amplifier**
- ◆ **compact stand-alone housing**
- ◆ **low voltage noise (< 0,3 mV<sub>RMS</sub>)**
- ◆ **full graphic display**

#### applications:

- laboratory applications
- industrial applications



pic.1: NV 40/3

The piezo amplifier **NV 40/3** was designed for controlling low voltage piezo elements. The **NV 40/3** includes voltage amplifier, a display, a PC-interface. The high-resolution display shows the voltage of the actuator along with some other information such as: the mode of operation, and the temperature inside the amplifier.

This piezo amplifier also provides the opportunity to control the piezo element via analog modulation input or RS232 and USB interface. The actuator voltage can be examined via the monitor output. Due to the very low voltage noise of the output current, only 0,3 mV<sub>RMS</sub> this amplifier system is ideally suited for positioning applications with sub-nm resolution. Special protective circuits prevent voltage spikes when switching the unit on and off and consequently avert any overload caused by overheating or short-circuit. The new soft start ensures an actuator-safe activation of the system. Due to its design, and compact casing, the new amplifier is recommendable for all R&D and engineering applications.

#### technical data:

channels  
output power  
output voltage  
output current (permanent)  
voltage noise  
resolution  
modulation signal  
input resistance modulation input  
DC-offset  
monitor  
connector (piezo)  
monitor output  
inside resistance monitor output  
dimensions[W x H x L]  
weight  
interface  
special features  
operating voltage

part no.: **E-101-20**

3  
3x 5,2W  
-20 ...+130V  
3x 40mA  
0,3mV<sub>RMS</sub> @ 500Hz  
16bit  
0 ... 10V DSUB25  
10kΩ  
selectable via button  
QVGA color display  
D-Sub 15pin per channel  
0 ... 10V (actuator) DSUB25  
<100Ω  
210 x 88 x 240 mm  
2,1kg  
RS232, USB  
soft start, over voltage protection,  
temperature rise protection, short circuit proof  
24VDC/2,5A  
(wide range power supply 90-264VAC included)