

nano box

Electronic • analog • OEM

Concept:

The **nano box** is designed as a stand-alone analog piezo amplifier for OEM applications. With an excellent price/value ratio, the **nano box** is recommended for the use in standard tasks for positioning applications with low dynamic requirements.

Especially the small dimensions and the robust metallic housing makes the **nano box** amplifier suitable for an easy integration into industrial applications as well in laboratory use.

Specials:

The **nano box** is designed mainly to control piezoelectric actuators in static and low dynamic applications. The low noise level of the output signal less than 3 mV allows a precise control of high resolution actuators over the entire range of motion. A unique feature is the built in function generator with a triangular waveform from 2 to 35 Hz. The voltage offset can be adjusted by an analog modulation signal (0 to +5V) or manual by using the potentiometer knob on the front panel.

Casing:

The amplifier **nano box** is fully enclosed by a robust metallic housing. An external wide range power supply module is included. All connectors and control switches are easily accessible on front and backside.



Image: nano box

Product highlights:

- 1-channel piezo amplifier
- built in function generator
- 10 mA permanent output current
- modulation input
- low-noise output signal
- small size

Applications:

- laboratory applications
- automation
- prototyping

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Technical data

	unit	nano box E-310-00
technical data		
number of channels	-	1
output voltage	V	0 ... 150
output current	mA	10 (continuous)
voltage noise	-	<3 mV _{RMS} @ 500 Hz
connector output voltage	-	LEMO 0S.302
input resistance	kΩ	5
modulation input	V	0 ... 5 (BNC)
built in function generator	-	2 ... 35 Hz (triangular wave)
dimensions (l/w/h)	mm	130/55/24
weight	g	175
operating temperature range	-	5°C - 35°C (41°F to 95°F)
main supply	-	9 V DC ± 10 % 0.25 A (wide range power supply 100 to 240 V AC, included in shipment)
main supply connector	-	Lumberg 161415
special features	-	short circuit proof

Drawings

