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30V300 Series

OEM Compact Analog Piezo Controller

- *300 mA permanent output current*
- *Main supply voltage of 10…30 VDC*
- *CLE version for all closed loop systems*
- *Robust casing and small dimensions*
- *Casing design changeable between 19“ screw slot and stand alone version*



Image: 30V300 CLE

Concept:

The 30V300 OEM piezo controller board series is especially made for controlling high precision, flexure guided piezo actuator stages used in highly dynamic nanopositioning tasks. One of the key features is the 300 mA permanent output current which enables the 30V300 piezo controller unit series to drive piezo actuator elements with the highest frequency. The driven piezo stages can reach the shortest settling times and allow high precision positioning tasks to be realized in the millisecond range.

The 30V300 series is available in 3 different casing styles for highest flexibility in use. The robust metal casing is available in a table top version (please see 30V300 CLE image), as an industrial rack mount 19“-version, and in a screw slot mounting version. These various options support flexibility in use and industrial compatibility.

Specials:

The 30V300 piezo controller series displays a superior voltage noise of the output signal of only 0.3 mV. This guarantees the achievement of nearly unlimited positioning resolution of piezoelectric actuators, down to a single step resolution in the sub-nanometer range.

The 30V300 CLE is equipped with an integrated sensor controller module which allows the highly dynamic control of piezoelectric elements equipped with an integrated feedback measurement system.

Interface:

A potentiometer on the front panel of the 30V300 controller series allows the user to manually change the DC level. An analog modulation input is also available for an external control signal from 0 to 10 V. All 30V300 piezo amplifiers come with a power supply module for 10 to 30 VDC.

Applications

- High-speed and precision control of piezo actuating systems in industrial and laboratory environments
- Automatic control for high resolution
- Nanopositioning applications

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30V300 Series

Technical Data

	Unit	30V300 and 30V300nanoX Series			
		30V300	30V300CLE	30V300 nanoX	30V300 nanoX CLE
Part number	-	E-460-013	E-460-113	E-468-013	E-468-113
Casing style	-	table top	table top	table top	table top
Number of channels	-	1			
Display	-	without			
Output voltage signal	V	-20…130V		-20V…130V (only nanoX actuators)	
Output current (permanent)	mA	300			
Voltage noise	mV	< 0.3mV$_{RMS}$@500Hz			
DC Offset	-	incremental potentiometer			
Piezo connector voltage	-	LEMO 0S.302		ODU series L 3pin	
Piezo connector sensor	-	-	ODU 4pin	-	ODU 4pin
Sensor controller	-	none	SG, CAP	none	SG, CAP
PC interface	-	-			
Modulation input	V	0….+10			
Modulation input impendance	kOhm	1			
Monitor output impendance (typ.)	kOhm	25			
Monitor output	V	-2…+13	0…+10	-2…+13	0…+10
Connector modulation/monitor	-	BNC			
Working temperature range	°C / F	5°C up to 35°C (41F to 95F)			
Main supply voltage	V	10V DC … 30V DC			
Connector main supply voltage	-	2.1mm Barrel type			
Specials	-	power on delay, overdrive protection, short circuit proofed			
Dimensions (lxwxh)	mm	235.5x85.7x105		235.5x85.7x105	

series casing with screw slots	Unit				
Part number	-	E-460-011	E-460-111	E-468-011	E-468-111
Dimensions (lxwxh)	mm	235.5x87.5x130		235.5x87.5x130	

series casing 19" rack mount	Unit				
Part number	-	E-460-012	E-460-112	E-468-012	E-468-112
Dimensions (lxwxh)	-	16TE x 3HE			

Rights reserved to change specifications as progress occurs without notice.

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