

## 12V40 CLE series – OEM piezo controller

### Compact analog piezo controller

#### Concept:

The 12V40CLE and 24V40CLE piezo controller series from **piezosystem jena** are especially made for piezoelectric actuators used in nanopositioning tasks for industrial applications.

The CLE version of the controller series comes with a sensor controller module. The 12V40 and 24V40 CLE versions are especially made for use in combination with piezoelectric actuators equipped with an integrated feedback sensor and a sensor pre-amplifier box (Actuator part number shows "E" suffix). The piezo controller offers the user the choice to control a piezoelectric element manually or via an analog modulation input with a signal of 0 to 10 VDC with a nearly unlimited step resolution. To support industrial use, all operational elements from the front panel are also available on the rear side. Due to their design and small dimensions, the piezo controllers from the 12V40 and 24V40 series are well suited for nanopositioning tasks for industrial applications as well as for simpler laboratory setups made for scientific applications.

#### Specials:

The piezo controllers in the 12V40 and 24V40 series have a robust metal casing. The casings are available as a screw slot version to support stand-alone application and as a 19"-Rack mount version for system integration. The DC offset level used to control the piezoelectric actuator is adjustable with a  $\frac{3}{4}$  turn potentiometer on the front side and by an analog modulation input signal of 0 to 10 VDC.



12V40 CLE (screw slot casing)

#### Product Highlights:

- 1-channel OEM piezo controller
- sensor feedback controller inside
- compact dimensions
- protected by a robust metal casing
- 40 mA permanent output current
- 12 VDC or 24 VDC main voltage
- modulation input
- monitor output

#### Application:

- pick & place automation
- OEM integration
- valve and gripper technology
- fiber alignment

## 12V40 CLE series – OEM piezo controller

### technical data

OEM piezo controller	unit	12V40 CLE (with sensor feedback controller)			
<b>description</b>		12V40 CLE	12V40 CLE	24V40 CLE	24V40 CLE
<b>part number</b>		E-440-711	E-440-712	E-440-732	E-440-732
<b>casing style</b>	-	screw slot version	19"-rack mount module	screw slot version	19"-rack mount module
<b>number of channels</b>	-	1	1	1	1
<b>display</b>	-	no	no	no	no
<b>main supply voltage</b>	V	12VDC	12VDC	24VDC	24VDC
<b>output voltage signal</b>	V			-10...150V	
<b>output current (permanent)</b>	mA			40mA	
<b>voltage noise</b>	mV			< 0.3mV <sub>RMS</sub> @500Hz	
<b>piezo connector</b>	<b>voltage</b>			LEMO 05.302	
	<b>sensor</b>			ODU L-series 4pin	
<b>sensor controller</b>	-			yes	
<b>PC interface</b>	-			no	
<b>DC Offset</b>	-			¾ turn potentiometer front panel	
<b>modulation input</b>	V			0...+10V (front and rear panel)	
<b>modulation input impedance</b>	Ohm			10kOhm	
<b>monitor output impedance (typ.)</b>	Ohm			50Ohm	
<b>monitor output</b>	V			-1...+15V front panel / 0...+10V rear panel	
<b>working temperature range</b>	-			5°C to 35°C (41F to 95F)	
<b>specials</b>	-			power on delay, overdrive protection	
<b>dimensions (lxwxh)</b>	mm	182.5x130x45	182.5x105x48	182.5x130x45	182.5x105x48

Specifications subject to change without notice!



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