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E-661 Piezo Controller with Parallel Interface For Maximum Command-Throughput Capacity



E-661.CP high-speed bench-top controller with parallel interface

- 10 μ s High-Speed Parallel Command Port
- Additional Analog Interface
- For Piezo Stages with Capacitive Sensors
- Notch Filter for Higher Bandwidth
- Integrated Piezo Power Amplifier
- OEM Modules and Multi-Channel System Available

The compact, high-speed E-661 piezo controller is designed for nanopositioning systems with integrated capacitive position feedback sensors. It possesses a low-noise integrated piezo amplifier providing -20 to 120 V with 80 mA sink and source capability. The E-661 comes with a metal case for EMI protection and an external power supply.

High-Speed Interface

The controller features a high-speed parallel command port with optical coupled inputs and extra low-noise, linear, 16-bit D/A converters. Real-time position feedback is realized via a special trigger option. Additionally a broadband analog interface is installed (0 to 10 V).

Nanometer Resolution in Milliseconds

This high-performance controller is designed for nanopositioning

tasks with highest precision and maximum turnover. Positioning with nanometer precisions and settling times of a few milliseconds are achieved in combination with the P-726 (see p. 2-32) objective positioners or P-753 (see p. 2-16) LISA™ actuators. More and more high-tech branches require “nanometer accuracy within milliseconds”. This is the case in microscopy/pharmaceutical research or quality testing for read/write heads, where every millisecond saved raises the throughput and helps reduce costs.

Single and Multi-Channel Systems

The same performance is available in modular form as the E-612.C0 (see p. 2-162). Up to four E-612.C0 piezo amplifier modules can be installed in one E-501.10 chassis for a multi-channel system. An internal address bus allows control of all modules over a single parallel command port.

Ordering Information

E-661.CP
Piezo Controller with High-Speed Parallel Interface, -20 to 120 V, Capacitive Sensor

Model	E-661.CP
Function	High-Speed Piezo Controller
Channels	1
Capacitive sensor circuit	
Clock frequency	1.6 MHz
Bandwidth	1.5 kHz
Amplifier	
Output voltage	-20 to +120 V
Average output power	8 W
Average current	80 mA
Current limitation	Short-circuit proof (5 minutes to shutdown)
Bandwidth (no load)	>500 Hz
Digital circuit	
Data	16-bit
Input level	TTL
Timing	THmin 10 μ s; TLmin 10 μ s
Input current	10 mA
On-target indication	On: target position $\pm 0.025\%$ to 0.2%, jumper-selectable
Analog input / output	
Control input voltage	-2 to 12 V
Input impedance	27 k Ω , 1 nF
Sensor monitor output	
Voltage range	-12 to +12 V (jumper-selectable)
Output impedance	10 Ω (10 nF)
Bandwidth	1.5 kHz
Connectors	
Digital interface	25-pin sub-D
Piezo	LEMO ERA.00.250
Sensor	LEMO EPL.00.250
Sensor monitor output	SMB
Analog input	SMB
Power consumption	15 V, 2 A (external power supply included)
Dimensions	125 x 50 x 262 mm



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