

1 Channel | E01.D1

Piezo Servo Amplifier



Introduction

E01.D1 is a 1-channel power servo amplifier with software control, its peak current is up to 1A, and bandwidth up to 10kHz.

Characteristics >>

- 1 channel
- Analog control
- Knob control
- Software control
- Keyboard control
- Servo control

Applications >>

- Driving piezo actuator
- Driving piezo nanopositioning stage
- Driving piezo objective scanner
- Driving piezo shifter
- Driving FTS fast tool positioner
- Driving piezo scanning platform
- Driving capacitive load



Harbin Core Tomorrow Science & Technology Co., Ltd.

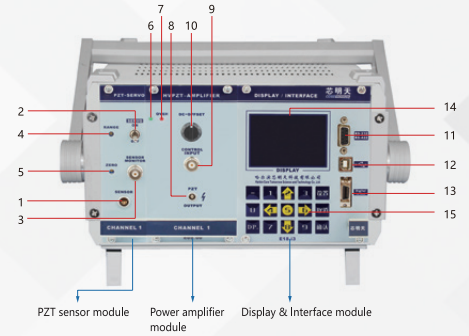
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Technical Data >>

Types		E01.D1 (E05 module)	
Power amplifier module	Channels	1	
	Contol analog input	-1.67~10V (Optional 0~5V)	
	Output voltage	-20~120V (Optional -20~150V)	
	Ripple	5mV	
	Voltage stability	< 0.1%F.S./8hours	
	Input impedance	100KΩ±20%	
	Bandwidth	10kHz (Optional 30k, 50kHz, etc.)	
	Ave.current	291mA	
	Peak current	1A	
	Bandwidth (1/10 signal)	>20kHz	
	Voltage gain	12	
	Knob adjustment	10 turns	
	PZT sensor control module	Sensor type	SGS (Optional LVDT, CAP)
		Sensor channels	1
Servo		Analog P-I+notch filter	
Sensor port		ERA.0S.304.CLL	
Sensor output port		BNC	
Display & interface module	Channels	1	
	D/A converter	16Bit±10V(optional 24 Bit±10V)	
	Output voltage resolution	1/30000	
	A/D converter	16Bit±10V	
	Film botton	15 buttons	
	Communication port	RS-232/422, USB	
	Bandrate	9600, 19200, 38400, 57600, 76800, 115200, 128000, 230400, 256000	
	Output frequency	10kHz	
	I/O port	1~3pcs, user can set the input or output, MDR14 connector	
	LCD keyboard control function	Output and measure voltage and displacement, spontaneous waveform, selection function, set parameters	
	Spontaneous waveform	Sine wave, square wave, triangle wave, sawtooth wave	
	Software control function	Output and measure voltage and displacement, waveform control, selection function, set parameters	
	Software waveform control	Programmable waveform output, standard waveform output	
	Secondary development	VC++, Matlab, LabView routine and DLL dynamic link library function, easy for development	
	Operating temperature	0~50°C	
Chassis & power supply module	Power supply	AC 220V±10%, 50Hz±10%	
	Current limit	Short-circuited proof	
	L×H×D	280×175×375mm	
Function	Basic control way	Manual adjustment, analog input, computer serial/USB interface, spontaneous waveform control, open-loop/servo control	

Panel Introduction >>

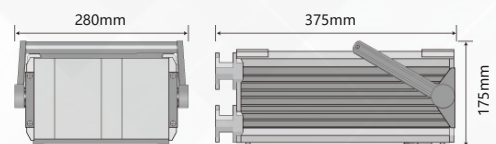


No.	Name	Functions
1	SENSOR	Sensor input
2	SERVO ON/OFF	Open-loop /servo-control switch
3	SENSOR MONITOR	Sensor output
4	RANGE	Range adjustment of sensor output signal
5	ZERO	Zeroing of sensor output signal
6	POWER	Power indicator
7	OVER	Overcurrent indicator
8	PZT OUTPUT	High voltage output
9	CONTROL INPUT	Analog signal input
10	DC-OFFSET	DC output voltage adjustment knob
11	RS-232/RS-422	D-SUB 9 pins socket
12	USB	USB-B connection socket
13	Digital In/Out	MDR14 connection socket
14	LCD Display Screen	LCD display
15	Membrane button	Film button



No.	Name
16	Power cord socket
17	Power Switch

Drawing >>



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