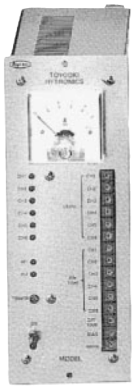
CONTROL AMPLIFIER FOR EHD3



ECAD-D2

This control amplifier is constructed compactly by adopting a switching power supply and can operate with a wide range of power supplies (85 to 250 VAC (50/60 Hz) and 110 to 250 VDC).

FEATURES

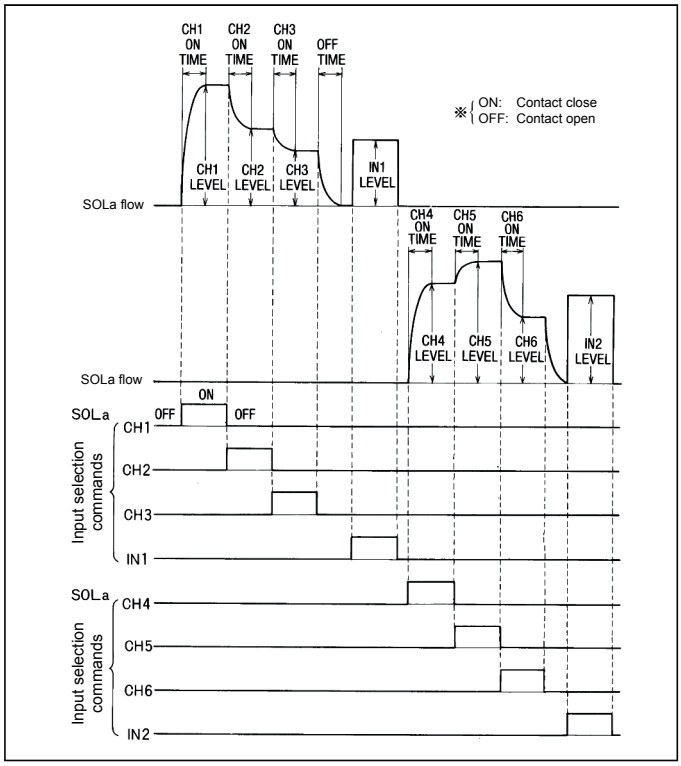
1. The amplifier incorporates three pressure setting units and can handle multi-stage pressure control on up to three channels.
2. The time settings for switchover among the channels can be made independently.
3. When there are multiple flow settings using one control valve, multiple-stage setting and shock relief are possible without installing external setting units.

- The cord connecting the valve coil connection terminal to the valve coil should have a current capacity of 1 A or larger, and the voltage drop in the connection cord should be limited to within 2 V.
- If the SOL connection terminal is disconnected with the power on, a surge voltage is generated and it may degrade the solenoid insulation.
- Simultaneous selection of more than one channel may cause trouble. An input selection command should be used for each channel, independently.
- For the external voltage input (VIN1, VIN2), use a shielded cable. The shielded cable should be connected as specified: VIN1 to terminal No. 10 and VIN2 to terminal No. 14. (Terminal Nos. 10 and 14 are connected in the amplifier).

SPECIFICATIONS

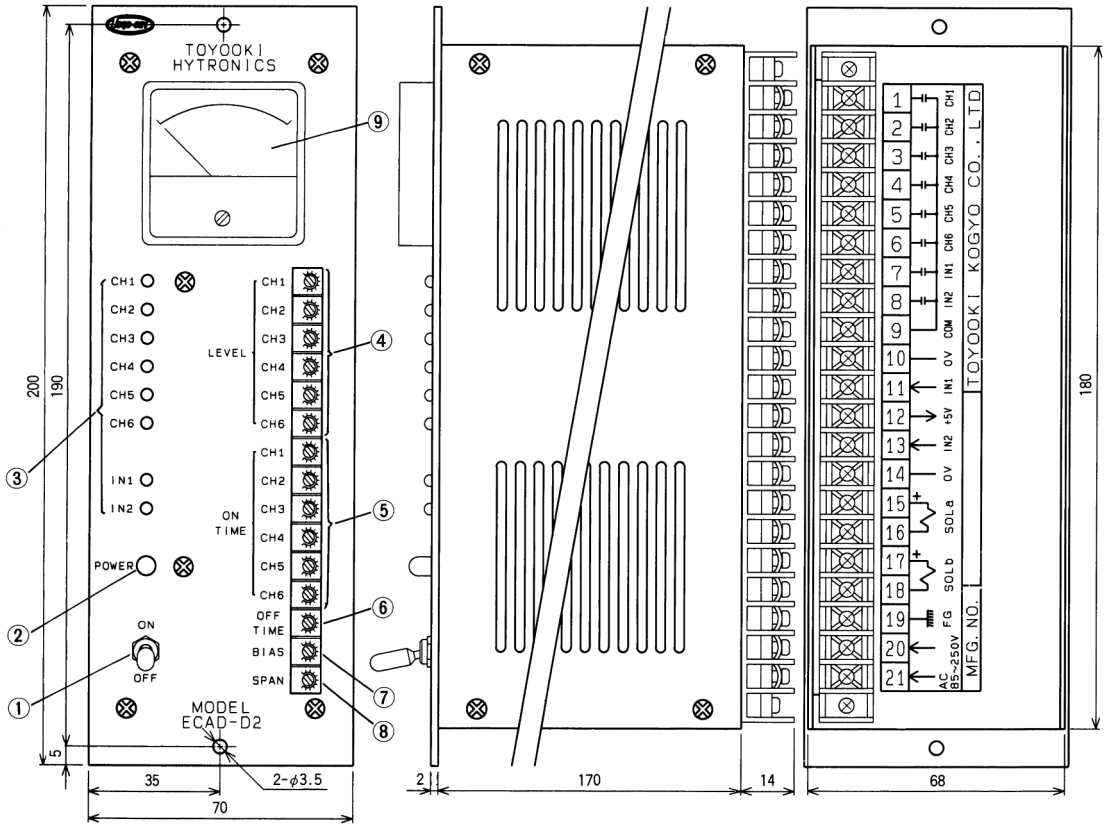
Model		ECAD-D2
Power supply voltage		85 to 250 VAC, 50/60 Hz 110 to 250 VDC
External input voltage		0 to +5 V
Input	Voltage input	1 input × 2 (SOLa, SOLb)
	Contact input	3 contacts × 2 (input selection command), 12 VDC, 2.4 mA
Max. gain		300 mA / 5 V
Input impedance		10 kΩ
Rated output current		300 mA
Time setting adjustment range		0.07 to 7 s (CR time constant curve)
Valve/coil resistance		34 Ω at 20°C
Mass		1.8 kg
Operating temperature range		0 to 50°C
Max. power consumption		16 VA

TIME CHART



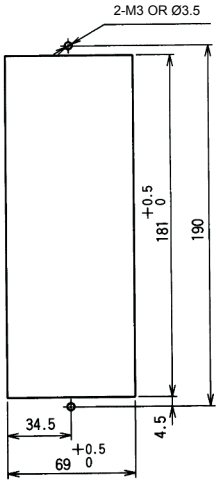
EXTERNAL VIEW AND NOMENCLATURE

● ECAR-D2



① Power switch
② POWER pilot lamp
③ Input selection indicating lamps
④ Flow setting knobs (LEVEL)
⑤ Rise time setting knobs (ON TIME)
⑥ Fall time setting knobs (OFF TIME)
⑦ Minimum pressure setting knob (BIAS)
⑧ Maximum pressure setting knob (SPAN)
⑨ Ammeter

● Mounting Hole Dimensions



● Terminal Functions

Terminal No.	Descriptions	
1	Input selection command	CH1
2		CH2
3		CH3
4		CH4
5		CH5
6		CH6
7		IN1
8		IN2
9		COM
10	Input signal	OV
11		IN1
12		+5V
13		IN2
14		OV
15	Output to valve SOLa	
16		
17	Output to valve SOLb	
18		
19	Frame ground	
20	Power input 85 to 250 VAC 110 to 250 VDC	
21		

● Terminal Connection