



ANLY TEMPERATURE CONTROLLER

EPC4-1 PID TEMPERATURE CONTROLLER

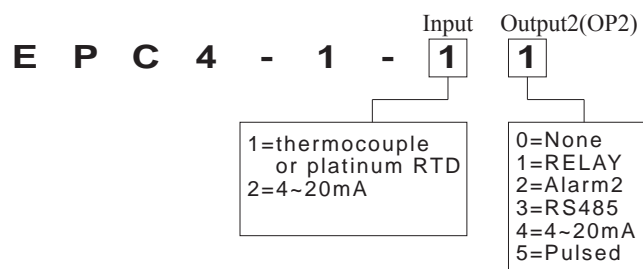


CHARACTERISTICS :

- Easy-to-use, PID function selectable
- Output1 : Relay or Voltage(for SSR) selectable
- Can choose one of them : Relay, Alarm2, RS485, 4~20mA and Voltage(for SSR) option for output2
- Accepts thermocouple, platinum RTD or 4~20mA inputs
- Heating or cooling control selectable
- Panel lock protection function
- Sensor malfunction detection function

Note. It depend on what input type do you select.

TYPE SELECTION :



SPECIFICATIONS :

Type	EPC4-1		
Operating voltage	AC/DC(V) : 100 - 240		
Rated frequency	50 / 60 Hz		
Power consumption	Approx. 3.5VA		
Input	EPC4-11□	Thermocouple	K, J, T, R, E, S, B, N
		RTD	Pt100, JPt100
	EPC4-12□	Analog	Current(4~20mA)
Output1	EPC4-1□□	Relay(OP1)	240VAC 3A, resistive load
		Pulsed(OP1)	Voltage Pulse ~ DC 20V
Output2	EPC4-1□1	Relay(OP2)	240VAC 3A, resistive load
	EPC4-1□2	Relay(AL2)	240VAC 3A, resistive load
	EPC4-1□3	Communication	RS-485
	EPC4-1□4	Analog	Current(4~20mA)
	EPC4-1□5	Pulsed(OP2)	Voltage Pulse ~ DC 20V
Alarm1 output	Relay (240VAC 3A, resistive load)		
Alarm function	See figure 1		
Control method	PID, PI, P, ON/OFF, Dead Band		
Setting	Digital setting using front panel keys		
Indicator	7-segment-display and LED		
Ambient temperature	-10 ~ +50°C (without condensation & freezing)		
Storage temperature	-25 ~ +65°C		
Ambient humidity	35 ~ 80%RH (without condensation)		
Storage humidity	35 ~ 95%RH		
Altitude	MAX 2000m		
Weight	Approx. 139g		

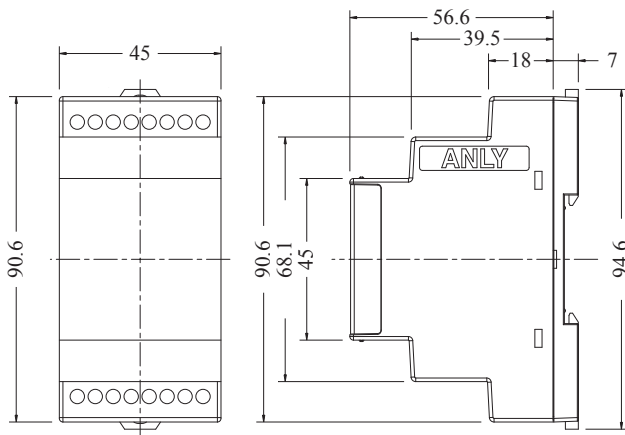
FEATURES :

Type	EPC4-1
Measuring accuracy	Within $\pm 0.3\%$ of present value or $\pm 2^\circ\text{C}$ whichever is greater
Proportional band (P)	0.1 ~ 3000 (0.1 units)
Integral time (I)	0 ~ 7200sec (1-second units)
Derivative time (D)	0 ~ 1800sec (1-second units)
Control period	0 ~ 65sec (1-second units)
Sampling period	250ms
Memory protection	EEPROM non-volatile memory (writing times : Approx. 100,000times)

FIGURE 1 (ALARM FUNCTION) :

AF 1	Alarm function selection	
1	Deviation high alarm	
2	Deviation low alarm	
3	Process high alarm	
4	Process low alarm	
5	Deviation high/low alarm	
6	Band alarm	
7	Deviation high alarm (standby)	
8	Deviation high alarm (standby)	
9	Process high alarm (standby)	
10	Process low alarm (standby)	
11	Deviation high/low alarm (standby)	
12	Band alarm (standby)	

DIMENSIONS : (mm)

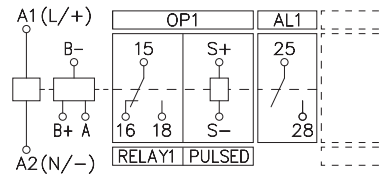


RATED SCALE :

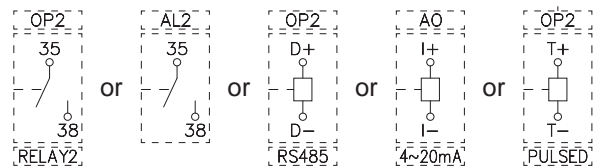
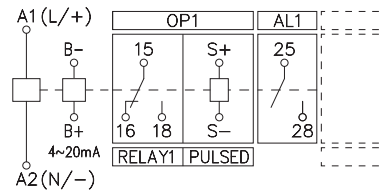
Input type	°C	°F
K	0~1200	32~2192
J	0~800	32~1472
T	-200~400	-328~752
R	0~1700	32~3092
E	0~600	32~1112
S	0~1700	32~3092
B	0~1800	32~3272
N	-200~1300	-328~2372
PT-100	-200~400	-328~725
JPT-100	-200~400	-328~725
Analog	-999~3200	

CONNECTION :

EPC4-11 □



EPC4-12 □



Tolerance: ±0.1

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