Digital Deviation Indicating Controller   Model : **RC-600**

■ Model
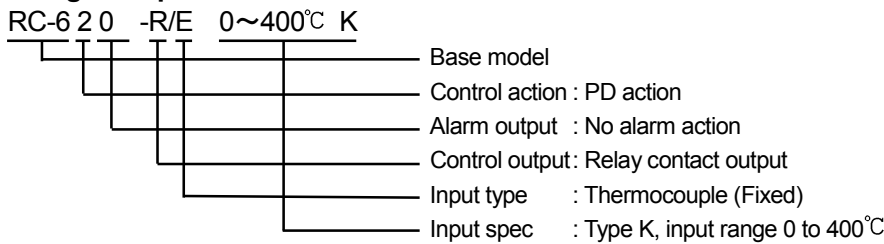
Model	RC-6		□	□ – □ / E	□
Control action	ON/OFF control action	1			
	PD control action	2			
Alarm function	No alarm action		0		
	High limit alarm		1		
	High limit alarm with standby		1		H
	Low limit alarm		2		
	High limit alarm with standby		2		H
	High/Low limits alarm		4		
	High/Low limits alarm with standby		4		H
	High/Low limit range alarm		6		
	Process high alarm		8		
	Process low alarm		9		
Output	Relay contact			R	
	Non-contact voltage			S	
	DC current			A	
Input	Thermocouple (K, J) (must be specified)				E

■ Input specifications

Rated scale:

Input Type	Input Range		Resolution
K	0 to 400℃	0 to 999℉	1℃(℉)
J	0 to 400℃	0 to 999℉	1℃(℉)

Input type : Thermocouple K, J (must be specified)   External resistance: 100Ω or less

■ Ordering example

```
RC-6 2 0  -R/E  0～400℃ K
```
— Base model
— Control action : PD action
— Alarm output : No alarm action
— Control output : Relay contact output
— Input type   : Thermocouple (Fixed)
— Input spec   : Type K, input range 0 to 400℃

■ General structure

Dimensions : 48×96×115mm (W×H×D)
Weight : Approx. 280g
Mounting : Flush
Case : ABS resin
Color : Dark gray
Panel : Membrane sheet
Supply voltage : 100 to 240V AC   50/60Hz
(Allowable voltage fluctuation
range: 85 to 264V AC)
Power consumption: Approx. 6VA

OFF indicator
ON indicator
SV display
[-100] key
[-10] key
[-1] key
RESET key
LED deviation indicator
ALARM indicator
[+100] key
[+10] key
[+1] key
ALARM key
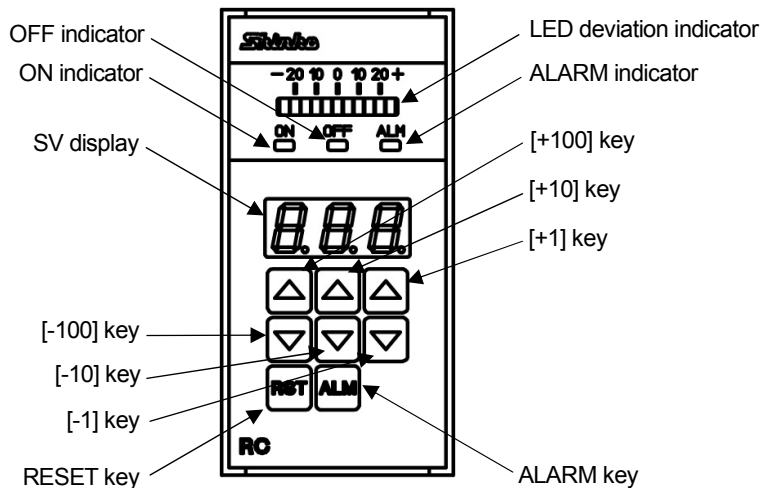
■ Indication performance

Indication accuracy: Within 1 bar [Resolution 5℃ (℉)]
Input sampling period: 0.25 sec

■ Control performance

Setting accuracy: Within ±0.3% of each input span ±1digit, or ±2℃ (4℉), whichever is greater
Control action : The following control action can be selected by the DIP switch.

Proportional band

        PD control action (with Auto-reset function)
        Proportional band (P): 10℃ (20℉)
        Derivative time (D): 50 sec
        Proportional cycle: 3 sec (Non-contact voltage), 30sec (Relay contact)
               (Not available for DC current output type)
        ON/OFF control action
        Hysteresis: 1℃ (2℉)
Main output : Relay contact: 1c
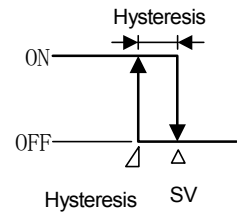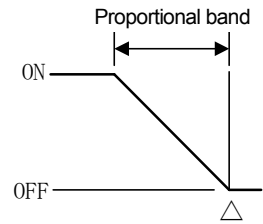   Control capacity: 5A 250V AC (Resistive load)
                 2A 250V AC (Inductive load $\cos\phi$=0.4)
        Electric life: 100,000 cycles
        Non-contact voltage (for SSR drive): 12^{+2}_{0}V DC
                 Max. 40mA DC (short circuit protected)
        DC current: 4 to 20mA DC (Resolution: 12,000) Load resistive: Max. 600Ω

■ Alarm function

The alarm action point is set from the ± deviation from the SV (except Process high/low alarm), and when the input goes outside the alarm setting range, the alarm output will be turned ON.

Alarm type : The following alarm types can be selected by the rotary switch.
        No alarm, High limit alarm, High limit alarm with standby, Low limit alarm, Low limit alarm with standby,
        High/Low limits alarm, High/Low limits alarm with standby, High/Low limit range alarm, Process high alarm,
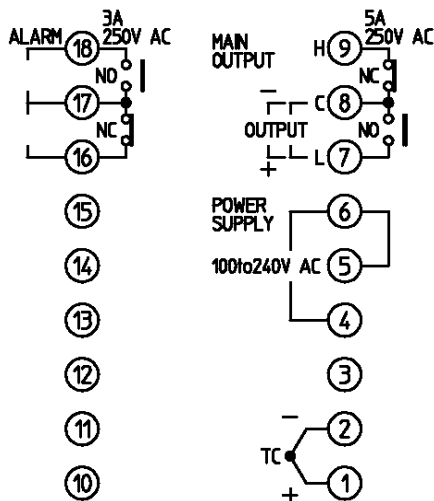   and Process low alarm
Control action : ON/OFF action   Alarm hysteresis: 1℃ (2℉)
Output : Relay contact: 1c
        Control capacity: 3A 250V AC (Resistive load) 1A 250V AC (Inductive load $\cos\phi$=0.4)
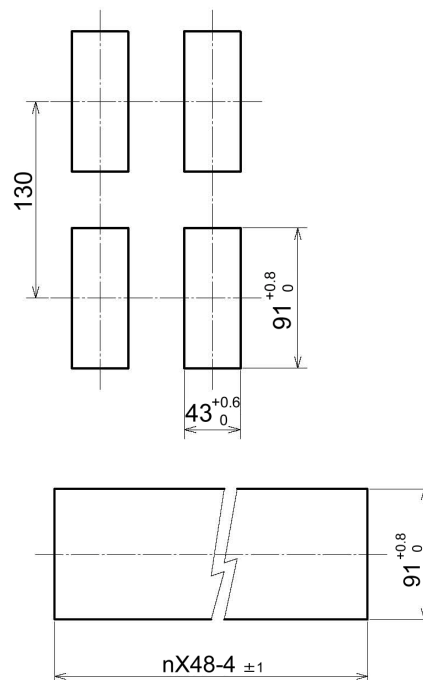   Electric life: 100,000 cycles

■ Terminal arrangement

TC : Thermocouple input
MAIN OUTPUT : Control output
ALARM : Alarm output

■ Panel cutout (Scale: mm)

Lateral close mounting
(n: Number of units mounted)