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℃
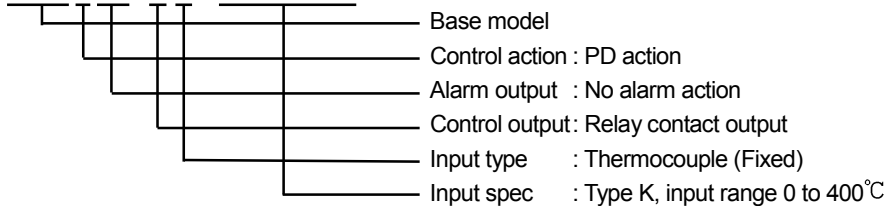
■ General structure

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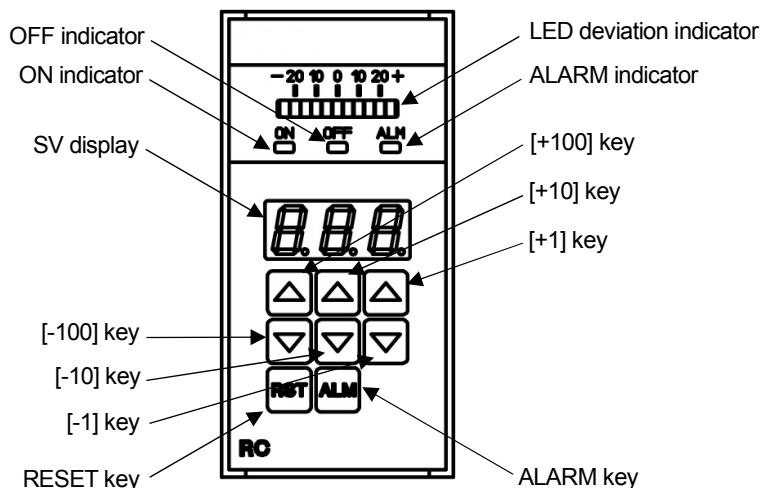
■ Indication performance

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.

        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
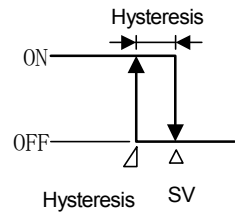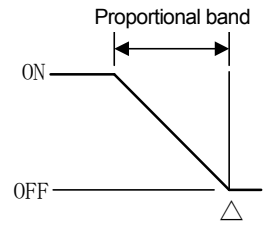   Control capacity: 5A 250V AC (Resistive load)
                     2A 250V AC (Inductive load $\cos\phi$=0.4)
        Electric life: 100,000 cycles
        Non-contact voltage (for SSR drive): 12^{+2}_{0}V DC
                     Max. 40mA DC (short circuit protected)
        DC current: 4 to 20mA DC (Resolution: 12,000) Load resistive: Max. 600Ω

Proportional band

Hysteresis / SV

■ 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,
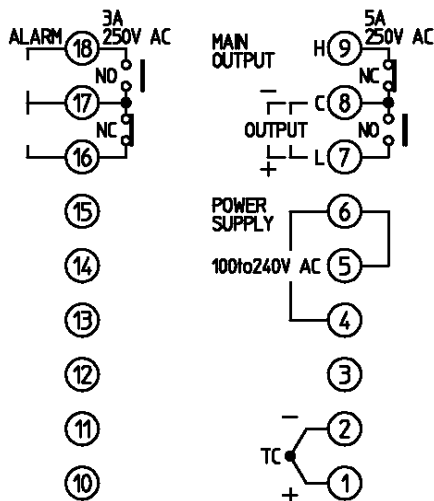   and Process low alarm

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
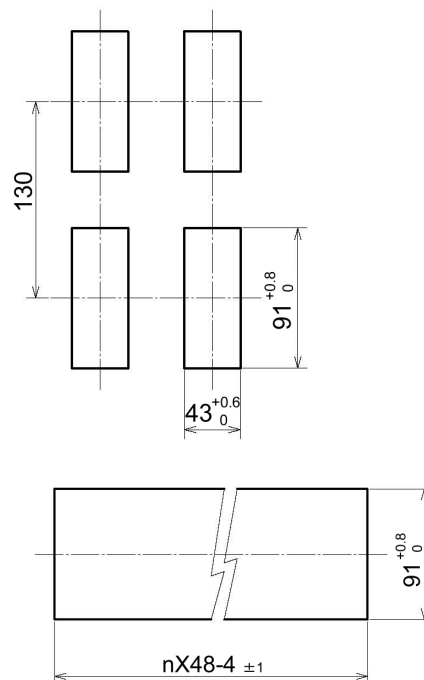
■ Terminal arrangement

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

■ Panel cutout (Scale: mm)

Lateral close mounting
(n: Number of units mounted)