



# Temperature Controller

## 溫度控制器



### Features

1. **Terminal Design** : adopts a special design with strong stress, providing good connection. It's also suitable for vibrating machinery.
2. **PCBs** : whole series use double-sided PCBs, quality can be assured.
3. **PCBs' location** : be fixed by vertical type so that it will not be affected by environment.
4. **Cold-junction Compensation** : by external type of high accuracy.
5. **Control Action** : cooling/heating system can be made according to the requirement.

### SPECIFICATION

**Power Supply** : AC 110V/220V, ±10%  
**Input** : K, J, Pt100Ω(DIN), R  
**Output** : RELAY(250V/5A), DC24V for SSR drive, 4-20mA  
**Control mode** : ON/OFF, P, PD  
**Proportional Band** : 3% full Scale  
**Cycle Time** : RELAY(16sec.), SSR(2Sec.)  
**Accuracy** : ±0.3% Full Scale  
**Ambient Temperature** : -10~55°C, below 90% humidity  
**Power Consumption** : RELAY(6W), SSR(5W)  
**Input Impedance** : 20M ohm 500V DC  
**High/Low Alarm** : ±10% full Scale Adjustable

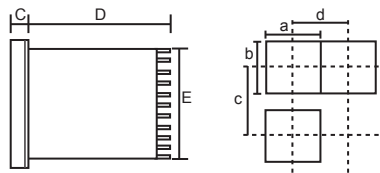
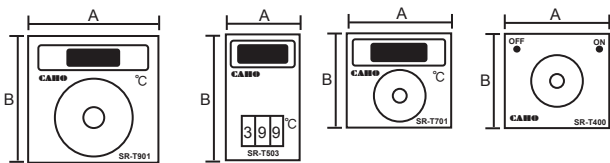
### 特性

1. **端子接點設計** : 特殊的彈片應力設計，達到更好的接觸效果。
2. **電路板** : 全系列雙面板設計，防空焊，品質有保障。
3. **電路板位置設計** : PCB採兩側直立式設計，對於環境不良場所，較能延長腐蝕壽命。
4. **溫度補償** : 採外露式冷接點補償，故補償更精準。
5. **系統控制模式** : 可選擇訂製加熱或冷卻系統。

### 規格說明

**電源** : AC 110V/220V, ±10%  
**輸入** : K, J, Pt100Ω(DIN), R  
**輸出** : 繼電器接點(250V/5A), DC24V, 4-20mA  
**控制方式** : ON/OFF, P, PD 動作  
**比例帶** : 3% 全刻度  
**週期時間** : 繼電器接點(16秒), SSR(2秒)  
**精準度** : ±0.3% 全刻度  
**環境溫濕度** : 濕度低於90%，常溫介於零下10度至55度  
**消耗電力** : 繼電器接點(6W), SSR(5W)  
**輸入阻抗** : 20M ohm 500V DC  
**上/下限警報** : ±10% 全刻度可調整

■ DIMENSION 尺寸圖

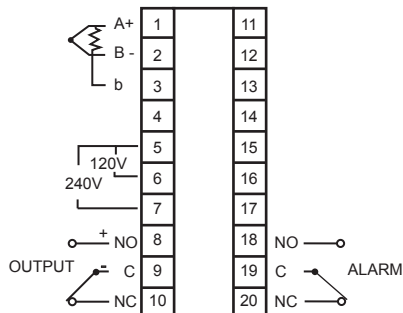


Panel Cutout 開孔尺寸 (Unit : mm)

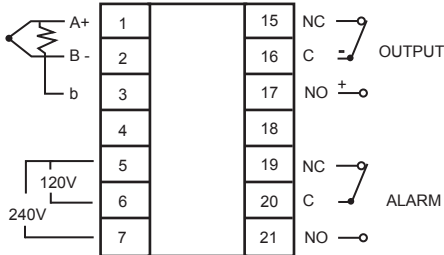
SERIES 系列	A	B	C	D	E	a	b	c	d
SR-T90	96	96	12	92	91	92 <sup>+0.5</sup> <sub>0</sub>	92 <sup>+0.5</sup> <sub>0</sub>	120	110
SR-T70	72	72	12	92	67	68 <sup>+0.5</sup> <sub>0</sub>	68 <sup>+0.5</sup> <sub>0</sub>	100	85
SR-T50	48	96	12	92	91	46 <sup>+0.5</sup> <sub>0</sub>	92 <sup>+0.5</sup> <sub>0</sub>	120	60
SR-T40	48	48	8	92	45	46 <sup>+0.5</sup> <sub>0</sub>	46 <sup>+0.5</sup> <sub>0</sub>	75	60

■ WIRING DIAGRAM 接線圖

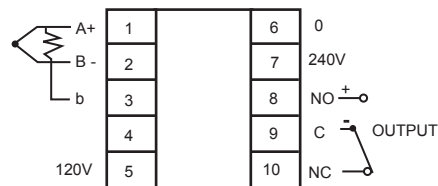
SR-T90, T50 SERIES



SR-T70 SERIES



SR-T40 SERIES



■ ORDERING CODE 訂貨編號

Model No. 型號



(Your remark is available)

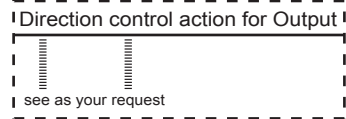
外型尺寸 Dimension	90	0, 1, 3, 8
96X96mm	90	0, 1, 3, 8
72X72mm	70	0, 1, 3
48X96mm	50	3
48X48mm	40	0
None indication	旋鈕設定, 無指示	0
Knob setting & Digit display	旋鈕設定, 數字顯示	1
Push wheel setting & Digit display	指撥設定, 數字顯示	3
Simple & None Alarm	簡易型無警報	8
Knob setting & Digit display	旋鈕設定, 數字顯示	

輸入訊號 Input Type	K	J	P
K(CA)	K		
J(IC)		J	
Pt100 ohm			P

警報 Alarm	N	1
None	N	
Fitted		1

溫度範圍 Temp. Range	A	B	C	D	R	E	F	G	H
± 50°C	A								
0~50°C		B							
0~100°C			C						
0~200°C				D					
0~300°C					R				
0~400°C						E			
0~600°C							F		
0~800°C								G	
0~1000°C									H

輸出方式 Output	N	R	V	I	Control Mode	N	O	P	D
NONE	N				NONE	N			
RELAY		R			ON/OFF		O		
DC 24V			V		P			P	
4-20mA				I	PD				D



Model 型號	SR-T900	SR-T901	SR-T903	SR-T908	SR-T400	SR-T700	SR-T701	SR-T703	SR-T503
Dimension 外型尺寸	96 X 96mm (SR-T90 SERIES)				48 X 48mm	72 X 72mm (SR-T70 SERIES)			48 X 96mm
Input 輸入信號	K, J, Pt100	K, J, Pt100	K, J, Pt100	K	K, J, Pt100	K, J, Pt100	K, J, Pt100	K, J, Pt100	K, J, Pt100
Temperature Range 溫度範圍	0-200°C 0-400°C	±50°C/Pt100 0-100°C 0-200°C 0-300°C 0-400°C 0-800°C/K, J	0-99.9°C 0-199°C 0-399°C 0-599°C/K, J 0-799°C 0-999°C	0-300°C 0-400°C	0-200°C 0-400°C	0-200°C 0-400°C	0-100°C 0-200°C 0-400°C 0-800°C/K, J	0-99.9°C 0-199°C 0-399°C 0-599°C/K, J 0-799°C 0-999°C	0-99.9°C 0-199°C 0-399°C 0-599°C/K, J 0-799°C 0-999°C
Output 輸出方式	Relay, SSR	Relay, SSR, 4-20mA	Relay, SSR, 4-20mA	Relay	Relay, SSR	Relay, SSR	Relay, SSR, 4-20mA	Relay, SSR, 4-20mA	Relay, SSR, 4-20mA
Control 控制方式	ON/OFF, P, PD			ON/OFF	ON/OFF, P, PD				
Option 選用	None	Input DC1-5V Input 4-20mA Hi/Low Alarm	Input DC1-5V Input 4-20mA Hi/Low Alarm	None	None	None	Input DC1-5V Input 4-20mA Hi/Low Alarm	Input DC1-5V Input 4-20mA Hi/Low Alarm	Input DC1-5V Input 4-20mA Hi/Low Alarm

附注 : 1. Relay 輸出能選用 ON/OFF, P, PD 控制  
2. S.S.R. 輸出能選用 P, PD 控制  
3. 4-20mA 輸出只能用 P 控制  
4. 所有的警報都是偏差警報

Note : 1. Relay-output can be suitable with control mode ON/OFF, P or PD  
2. S.S.R.-output can be suitable with control mode P or PD  
3. 4-20mA-output only can be suitable with P control  
4. All the Alarm function are Deviation (Hi/Low) Alarm