

Multi Input & Output Temperature Controller



The TS4 Series Temperature Controllers - one of the most cost effective temperature controlling solution with PID functions; Dual display 4 Digit, 100ms high speed sampling has both SSR output and relay output are supported to realize effective and economical controlling; 2 alarm output; Voltage models : 100-240 VAC

- Built-in PID auto tuning function
- Select the output action : reverse action/direct action
- Alarm (ALH, ALL, LBA)
- Upper/Lower limit setting limitation function
- Setting data lock function
- Input compensation function
- Decimal point display function
- Support thermocouple and RTD multi-model sensor input

		Specification			
Series		TS4-M	TS4-C	TS4-H	TS4-B
Power supply	AC Power	100-240VAC-50/60Hz			
	AC/DC Power	24VAC-50/60Hz, 24-48VDC			
Allowable voltage range	AC Power	95 to 110% of rated voltage			
	AC/DC Power	Max. 5V/1(100-240VAC 50/60Hz)			
Power consumption	AC Power	Max. 5VA(100-240VAC 50/60Hz)			
	AC/DC Power	Max. 5V(24VAC 50/60Hz), Max. 3W(24-48VDC)			
Display method		7 segment (PV: red, SV: green, other display part(green, red) LED method			
Character size	PV(W×H)	7.0×15.0mm	9.5×20.0mm	7.0×14.6mm	11.0×22.0mm
	SV(W×H)	5.0×9.5mm	7.5×15.0mm	6.0×12.0mm	7.0×14.0mm
Input type	RTD	DIN PT100D, Cu50Q (Allowable line resistance max 5Ω per a wire)			
	TC	K(CA), J(IC), L(IC), T(CC), R(PR), S(PR)			
Display accuracy	RTD	At room temperature(23°C ± 5°C): (PV ± 0.5% or ±1°C, select the higher one) ± 1 digit Out of room temperature range: (PV ± 0.5% or ±2°C, select the higher one)± 1 digit			
	TC	For TMS-□-P, add ±1°C by accuracy standard.			
Control output	Relay	250VAC~3A 1a			
	SSR	12VDC±±2V 20mA Max			
Alarm output		AL 1, AL2 Relay: 250VAC~ 1A 1a			
Control method		ON/OFF control, P, PI, PD, PID control			
Hysteresis		1 to 100°C/°F (0.1 to 50.0°C/°F)			
Proportional band(P)		0.1 to 999.9°C/°F			
Integral time(I)		0 to 9999 sec.			
Derivative time(D)		0 to 9999 sec.			
Control period(T)		0.5 to 120.0 sec.			
Manual reset		0.0 to 100.0%			
Sampling period		100ms			
Dielectric strength	AC power	2000VAC 50/60Hz 1 min.(between input terminal and power terminal)			
	AC/DC Power	1000VAC 50/60Hz 1min.(between input terminal and power terminal)			
Vibration		0.75mm amplitude at frequency of 5 to 55Hz in each X, Y, Z direction for 2 hours			
Relay life cycle	Mechanical	OUT: Over 5,000,000 times, AL1/2: Over 5,000,000 times			
	Electrical	OUT: Over 200,000 times(250VAC 3A resistive load) AL 1/2: Over 300,000 times(250VAC 1A resistive load)			

Dimensions

