

T900 SERIES TEMPERATURE CONTROLLER

INSTRUCTION MANUAL

Thank you for purchasing This T900 series temperature Controller ,This manual primarily describes Precaution required in Installing and wiring the Temperature Controller. Before operating The product, read this manual through to acquire sufficient Knowledge of the product. Keep this manual close at hand and use for

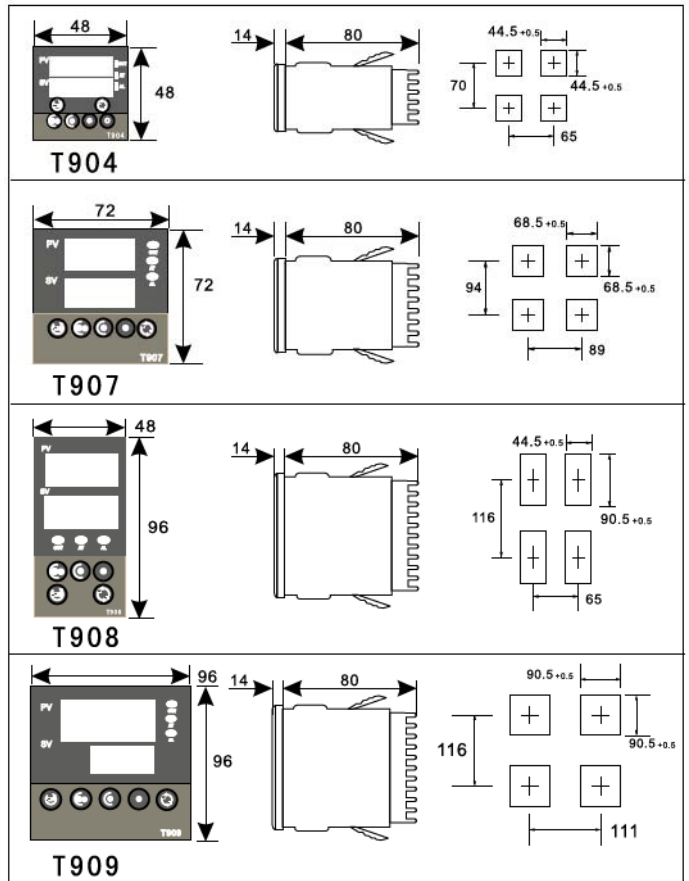
1, Notice

- Do not use the product in places where explosive or flammable gases may be present.
- Make sure that the load power supply is within the rating, Be sure to wire properly with correct polarity of terminal.
- Never disassemble, modify or repair the product.
- For correct use, Do not subject the temperature Controller to the following conditions.
 - Place where temperature fluctuates dramatically.
 - Place where humidity is high and condensation may occur.
 - Place where there is danger of splashing of water oil or any chemicals.

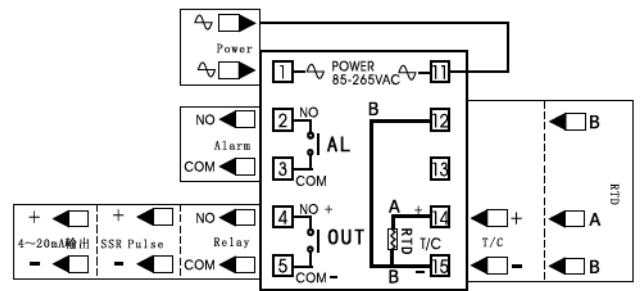
2, General Characteristic

MODE	T904 (FT-4)	T907 (FT-6)	T908 (FT-8)	T909 (FT-10)
SIZE	48×48mm	72×72mm	96×48mm	96×96mm
POWER	AC85-265V 50/60Hz			
INPUT	T/C, RTD			
OUTPUT	RELAY, PULSE, 4~20mA			
CONTROL METHOD	PID, PD, PI, P, ON/OFF			
ALARM CAPACITY	220VAC, 3A			
OPERATING AMBIENT	0-50℃ 50-85%RH			
POWER CONSUMPTION	4VA			

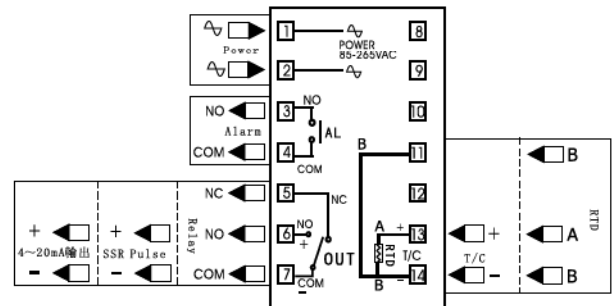
3, Installation (Unit:mm)



4, Connection (sample)



T904



T907

Note: When input type is RTD, please short the "GG" on the PC board.
For example:

T/C	■ "GG" OPEN
RTD	■ "GG" SHORT

5, Operating Describe

5.1 Front Panel Instruction

PV:Process Value

SV:Set Value

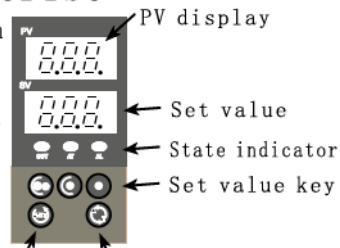
⊖:SV Hundred Value Set Key

⊙:SV Ten Value Set Key

⊕:SV Number Value Set Key

⊖:Enter Key

⊕:Auto Tuning Key Enter key Auto tuning key



5.2 Operating

5.2.1:Input type set(K1:0-400°C, initial)

At level1. Press ⊖ key for 5 seconds to enter level2. Then press ⊖ key to INP parameter, then press ⊕ key to change the parameters (see app2), and press ⊖ key enter.

5.2.2:Alarm mode set(Ad=0, initial)

At level1. Press ⊖ key for 5 seconds to enter level2. Then press ⊖ key to Ad parameter, press ⊕ key to change the parameters (see app1), and press ⊖ key enter.

5.2.3:Alarm set(AL=0, initial)

At level1. Press ⊖ key for 5 seconds to enter level2. Then press ⊖ key to AL parameter, press ⊕ key ⊙ key and ⊕ key to change the value of the SV. Press ⊖ key enter.

5.2.4:SV set

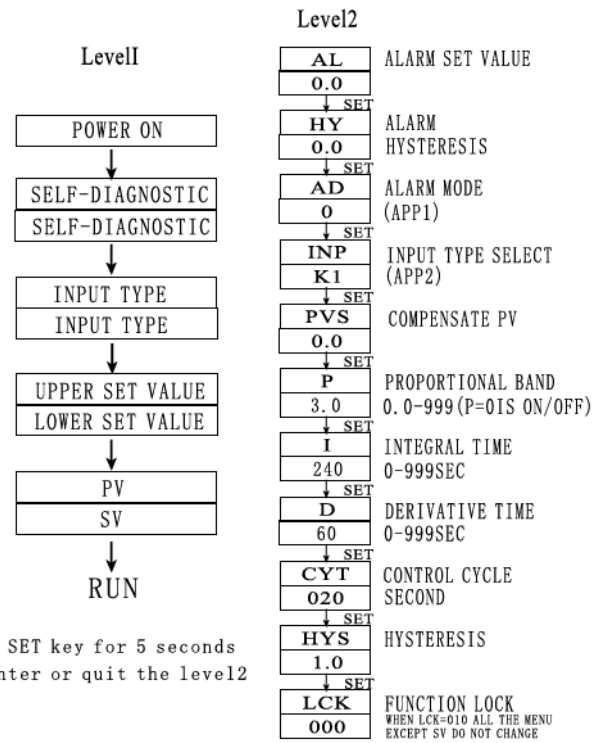
At level1. Press ⊖ key or ⊕ key for 2 seconds and enable to change. Then press ⊖ and ⊕ key to change the value of the SV. Press ⊖ key enter.

5.2.5:AT(P=0 AT no function)

At level1. Press ⊕ key for 5 seconds. Auto-tuning is started and the AT indicator lighting. The AT indicator extinguishes and optimum PID constants are set automatically.

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6, Operating Flow



7, Self-Diagnostic Function

	Cold junction compensation failure
	1, Over-flow
	2, Sensor error

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8, Appendix

APP1 ALARM MODE

0	Deviation high alarm OFF ON LOW HIGH PV	4	Band alarm OFF ON OFF LOW HIGH PV
1	Deviation low alarm ON OFF LOW HIGH PV	5	Deviation H&L alarm ON OFF ON LOW HIGH PV
2	Absolute value high alarm OFF ON LOW HIGH PV	6	Deviation low alarm(inhibit) ON OFF LOW HIGH PV
3	Absolute value low alarm ON OFF LOW HIGH PV	7	Absolute value low alarm(inhibit) ON OFF LOW HIGH PV

APP2 INPUT TYPE

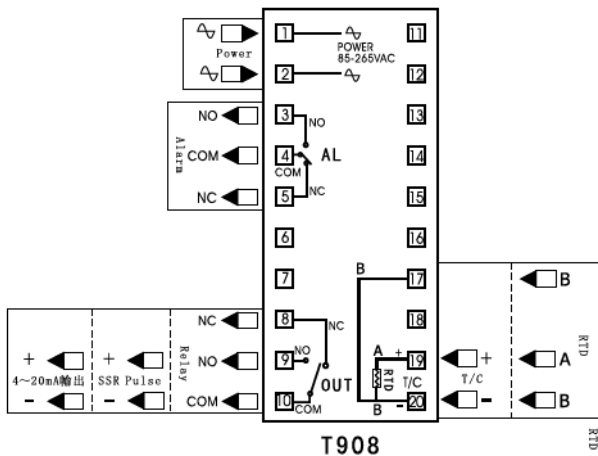
T/C		RTD	
K1	0-400°C	Pt1	-199-200°C
K2	0-800°C	Pt2	0-600°C
J	0-800°C	Cu	-50-150°C
T	0-400°C		

APP3 TYPE DISTINGUISHING

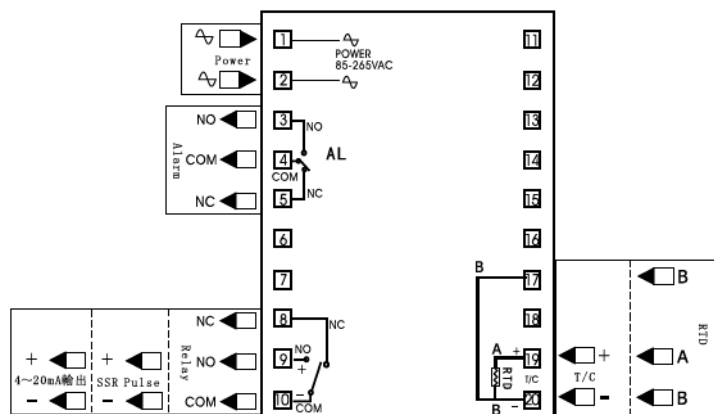
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Type	Code	Special Function	Code	Output method	Code	Alarm	Code	Input type	Code	Control method	Code
DIN4848	4	None	A	None	0	No	0	T/C	1	Heat	0
DIN7272	7	Soft start and de-humidify	B	Relay	1	One	1	RTD	2	Cool	1
DIN9648	8			Pulse	2						
DIN9696	9			4-20mA	3						

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T/C



T909

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