

Energy Management

TCN4 Temperature Controller



General

The TCN4 temperature controller is a standard embedded temperature control instrument. It is available in multiple panel sizes, supports thermocouple and RTD inputs, features PID self-tuning and dual alarm outputs, offers optional relay/solid-state relay outputs and RS485 communication, operates with a wide voltage supply, and boasts high temperature control accuracy. It is suitable for various industrial temperature control scenarios such as ovens, injection molding, and heating equipment

Standards: IEC 60730-2-9

Type designation

TCN4S-14R

Product name	Panel Size(WxH)			
TCN4	S	-	1	4
Temperature controller model	S:48X48(45X45) M:72X72(68X68) H:48X96(45X92) L:96X96(92X92) Note: The dimensions of installation holes are shown in brackets.	Alarmfunction output: 1:One Output With 4 type	Inputsignal: 4:K,E,J,Pt100, Cu50	OUTPUT: R : Re-lay+SSR, Default factory value relay

1. It represents support for four different alarm modes:
2. Upper limit alarm (overtemperature alarm)
3. Lower limit alarm (low temperature alarm)
4. Deviation alarm (alarm when temperature deviates from the set value within a certain range)
5. Hysteresis alarm (prevents frequent start-stop of temperature at critical points)

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Technical data

Parameter item	Specification
Input signal	Multi Sensor(K,E,J,Pt100,Cu50) Editable input signal
OUTPUT	Relay output: Contact capacity 250VAC10A (resistive),resistive heating candirectly load 1000W.
Voltage Pulse output	DC0-12V(suitable for SSR)
Alarm function output	NO/OFF,250VAC 10A (resistive), one output with 4 type
Control mode	PID adjustment with contact output break-make, NO/OFF
Work power	AC/DC85-264V, 50Hz-60Hz.

Measuring Range

Enter the graduation number of the sensor	Display measuring range
K	0-1300°C
J	0-800°C
E	0-800°C
Pt100	-199.9~+649.0°C
Cu50	(-50)-(+150)°C

Adaptation



Model : NO.124



Type: K, J

Grade: A

Protective tube material: SUS304

Measure range: 0~400°C

Conductor temperature resistance: 0~300°C

Model : NO.125



Type: K, J

Grade: A

Protective tube material: SUS304

Measure range: 0~600°C

Conductor temperature resistance: 0~500°C

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Model : NO.126

Type: K, J
Grade: A
Protective tube material: SUS301
Measure range: 0~400°C
Conductor temperature resistance: 0~300°C



Model : NO.127

Type: PT100
Grade: B
Protective tube material: SUS304
Measure range: 0~400°C
Conductor temperature resistance: 0~80°C



Model : NO.128

Type: K, J
Grade: A
Protective tube material: SUS304
Measure range: 0~400°C
Conductor temperature resistance: 0~300°C

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Type: PT100
Grade: B
Protective tube material: SUS304
Measure range: 0~400°C
Conductor temperature resistance: 0~100°C



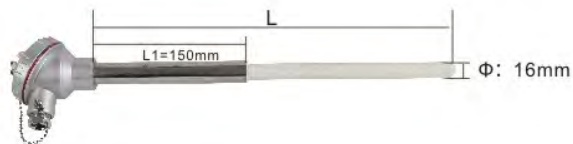
Type: K,J
Grade: A
Protective tube material: SUS304
Measure range: 0~400°C
Conductor temperature resistance: 0~400°C



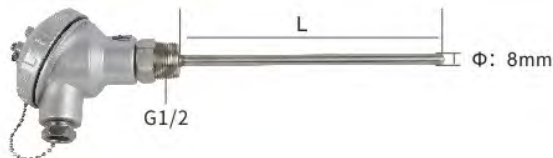
Type: K
Grade: A
Protective tube material: SUS304
Diameter of Pipe: 16mm
Measure range: 0~400°C
Conductor temperature resistance: 0~400°C

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Type: K
Grade: A
High alumina
Diameter of Pipe: 16mm
Measure range: 0~1300°C
Protective tube material: SUS304/150mm
Length (L) shall be indicated when ordering



Type: K, PT100
Grade: A
Thread size: G1/2
Diameter of Pipe: 8MM
Measure range : 0~800°C
Protective tube mataerial : SUS304
Length (L) shall be indicated when ordering