


Data sheet

Display method	4-digit 7-segment LED
Control method	ON/OFF, P, PI, PD, PID
Input specification	Thermocouple: K(CA), J(IC), E(CR), T(CC), B(PR), R(PR), S(PR), N(NN), C(TT), G(TT), L(IC), U(CC), Platine II RTD: DPT100Ω, DPT50Ω, JPT100Ω, Cu100Ω, Cu50Ω, Nikel 120Ω Analog: 0-100mV, 0-5V, 1-5V, 0-10V 0-20mA, 4-20mA
Sampling cycle	50ms
Control output 1	SSR drive(11VDC ---) [ON/OFF, phase, cycle]
Control output 2	Relay(250VAC~ 3A)
Option output	Alarm 2
Power supply	100-240VAC~ 50/60Hz
Protection structure	IP65(front panel)
Display accuracy _ RTD	<ul style="list-style-type: none"> At room temperature(23°C±5°C):(PV ±0.3% or ±1°C, select the higher one) ±1-digit Out of room temperature:(PV ±0.5% or ±2°C, select the higher one) ±1-digit
Display accuracy _ Thermocouple	<ul style="list-style-type: none"> At room temperature(23°C±5°C):(PV ±0.3% or ±1°C, select the higher one) ±1-digit Out of room temperature:(PV ±0.5% or ±2°C, select the higher one) ±1-digit
Display accuracy _ Analog	<ul style="list-style-type: none"> At room temperature(23°C±5°C): ±0.3% F.S. ±1-digit Out of range of room temperature: ±0.5°C% F.S. ±1-digit
Display accuracy _ CT input	±5% F.S. ±1-digit
Hysteresis(adjustable sensitivity)	RTD/Thermocouples: 1 to 100°C/°F(0.1 to 100.0°C/°F) variable Analog: 1 to 100-digit
Proportional band	0.1 to 999.9°C/°F(0.1 to 999.9%)
Integral time	0 to 9999 sec
Derivative time	0 to 9999 sec
Control period	Relay output, SSR drive output: 0.1 to 120.0 sec Current output or SSR drive output selectable: 1.0 to 120.0 sec
Manual reset	0.0 to 100.0%
Environment _ Ambient temperature	-10 to 50°C, storage: -20 to 60°C
Environment _ Ambient humidity	35 to 85% RH, storage: 35 to 85% RH
Insulation type	Double insulation or reinforced insulation(mark:  , dielectric strength between the measuring input part and the power part: 2kV)
Weight	Approx. 140g(approx. 70g)

※In case of TK4N, TK4SP, option output may be limited due to number of terminals.

※"S" represents SSR drive output support models which SSRP function (standard ON/OFF control, cycle control, phase control) are available. "C" represents selectable current and SSR drive output support models.

※Select "R" or "C" type in case of using heating&cooling control and "N" type in case of using standard control.

※Does not support in AC/DC voltage type model.

※CT input of TK4N is available only for the standard model which has alarm output 1.

※Display accuracy:

◎At room temperature (23°C±5°C)

■ Thermocouple K, J, T, N, E type, below -100°C/Thermocouple L, U, PL II type, RTD Cu50Ω, DPT50Ω: (PV ±0.3% or ±2°C, select the higher one) ±1-digit

■ Thermocouple C, G, R, S type, below 200°C: (PV ±0.3% or ±3°C, select the higher one) ±1-digit

■ Thermocouple B type, below 400°C: there is no accuracy standards.

◎Out of room temperature range

■ RTD Cu50Ω, DPT50Ω: (PV ±0.5% or ±3°C, select the higher one) ±1-digit

■ Thermocouple R, S, B, C, G type: (PV ±0.5% or ±5°C, select the higher one) ±1-digit

■ Others, Below -100°C: within ±5°C

In case of TK4SP Series, ±1°C will be added to the degree standard.

※The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.