


Data sheet

Display method	4-digit 7-segment LED
Control method	ON/OFF, P, PI, PD, PID
Input specification	Thermocouple: K(CA), J(IC), T(CC), R(PR), S(PR), L(IC) RTD: DPt100Ω, Cu50Ω
Sampling cycle	100ms
Control output	Relay(250VAC~ 3A) or SSR drive(12VDC ---) [ON/OFF]
Option output	Alarm 1/2
Power supply	100-240VAC~ 50/60Hz
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
Display accuracy_Thermocouple	■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
Hysteresis (adjustable sensitivity)	1 to 100°C/°F(0.1 to 50.0°C/°F) variable
Proportional band	0.1 to 999.9°C/°F
Integral time	0 to 9999 sec
Derivative time	0 to 9999 sec
Control period	0.5 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: AC power 2kV, AC/DC Power 1kV)
Weight	Approx. 147g(approx. 100g)

※In case of the AC voltage model, SSR drive output method (standard ON/OFF control, cycle control, phase control) is available to select.

※Display accuracy:

At room temperature (23°C ±5°C)

- Thermocouple R (PR), S (PR), below 200°C: (PV ±0.5% or ±3°C, select the higher one) ±1-digit
- Thermocouple R (PR), S (PR), over 200°C: (PV ±0.5% or ±2°C, select the higher one) ±1-digit
- Thermocouple L (IC), RTD Cu50Ω: (PV ±0.5% or ±2°C, select the higher one) ±1-digit

Out of room temperature range

- Thermocouple R (PR), S (PR), below 200°C: (PV ±1.0% or ±6°C, select the higher one) ±1-digit
- Thermocouple R (PR), S (PR), over 200°C: (PV ±0.5% or ±5°C, select the higher one) ±1-digit
- Thermocouple L (IC), RTD Cu50Ω: (PV ±0.5% or ±3°C, select the higher one) ±1-digit

For TCN45-□-P, add ±1°C by accuracy standard.

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

※Environment resistance is rated at no freezing or condensation.