

TP3

5 channel digital indicator

- Indicates 5 contacts temperature with 1 instrument
- Temperature deviation compensation function in each channel
- Channel fix/channel automatic switch selection
- Automatic switching time selection in each channel



Suffix code

Model	Code	Description
TP3-	<input type="checkbox"/> <input type="checkbox"/>	5 channel indication thermometer 96(W) X 48(H)
Input	K	K thermocouple
	J	J thermocouple
	P	Resistance Temperature Detector (RTD) Pt 100 Ω (IEC)
Power supply voltage	P4	100 - 240 V AC 50 - 60 Hz

Specification

Input	
Input	by the suffix code (same input 5 contacts)
Thermocouple	K, J
RTD	Pt100 Ω (IEC)
Input sampling time	500 ms
Input display resolution	Usually less than 1 °C
Input impedance	Thermocouple and DC voltage input (mV) : 1 MΩ min, DC rated voltage(V) : approx. 1 MΩ
Allowable signal source resistance	Thermocouple (250 Ω max), DC voltage (2 kΩ max)
Allowable wiring resistance	RTD 10 Ω max (but resistances among 3 wires should be same)
Allowable input voltage	Within ±10 V (thermocouple, RTD, DC voltage(mV)), within ±20 V (DC voltage(V))
Input compensation	Compensation by internal parameter
Cold junction compensation error	±2.0 °C (0 ~ 50 °C)

Performance		
Display accuracy	Thermocouple	±(0.5% of indicated value ±1 Digit) or ±3 °C (bigger one)
	RTD	±(0.5 % of indicated value ±1 Digit) or ±2 °C (bigger one)
Insulation resistance	20 MΩ min(500 V DC)	
Dielectric strength	2000 V AC 50 / 60 Hz for 1 min (between the different recharging part) from each other	



General specification

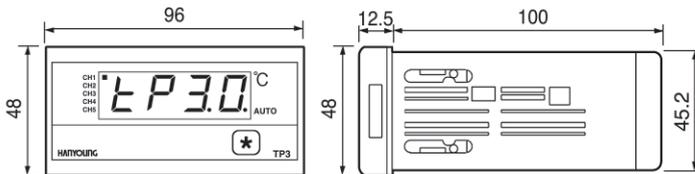
Power Supply Voltage	100 – 240 V AC 50 – 60 Hz
Voltage fluctuation	±10 % of power supply voltage
Power consumption	5 VA max
Ambient temperature	0 ~ 50 °C
Ambient humidity	35 ~ 85% RH (without dew condensation)
Storage temperature	-25 ~ 65 °C
Vibration resistance	10 – 55 Hz, peak amplitude 0.76 mm for 2 min each in 3 axis direction
Shock resistance	300 ㎉, to the 6 direction each 3 times
Weight	400 g

Range and input code chart

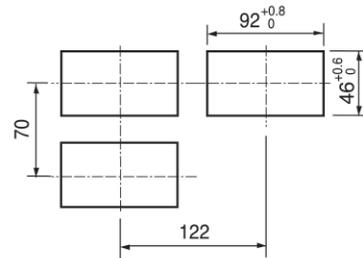
Classification	Code	Input type	Range(°C)	Accuracy
Thermocouple	K	K	-50 ~ 1,200	±(0.5% of indicated value ±1 Digit) or ±3 °C (bigger one)
	J	J	-50 ~ 800	
RTD	P	Pt100 Ω	-100 ~ 400	±(0.5% of indicated value ±1 Digit) or ±2 °C (bigger one)

Dimension and panel cutout (Unit : mm)

● Dimension



● Panel cutout



Connection diagram

