

A

Temperature
Controller

AT3

Digital indicator

- 0.5 % high accuracy indicator
- Simple exclusive indication
- Font height 14.2 mm, LED applied



Suffix code

Model	Code	Description	
AT3 -	<input type="checkbox"/>	Digital temperature indicator, 96(W) × 48(H) mm	
Input	KP	K thermocouple RTD Pt100 Ω	Select K or RTD by internal dip switch
	R	R thermocouple	

Specification

Input

Thermocouple	K, R
RTD	Pt100 Ω (IEC).
Input sampling time	500 ms
Input display resolution	Usually less than indication value 1 °C (0.1 °C)
Input impedance	1 MΩ (thermocouple and DC voltage)
Allowable signal source resistance	Thermocouple (100 Ω 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)

Performance

Display accuracy	±0.5 % of FS
Insulation resistance	20 MΩ min (500 V DC)
Dielectric strength	2,000 V AC 50/60 Hz, for 1min, (between the different recharging part from each other)

General specification

Power Supply Voltage	110/220 V AC 50/60 Hz (Dual usage)
Voltage fluctuation	±10 % of power supply voltage
Power consumption	4 VA max.
Ambient temperature	0 ~ 50 °C
Storage temperature	-25 ~ 65 °C
Vibration resistance	10 – 50 Hz, peak amplitude for 2 hrs each in X, Y and Z direction
Shock resistance	300 %, direction to 6, each 3 times
Weight	Approx. 282 g

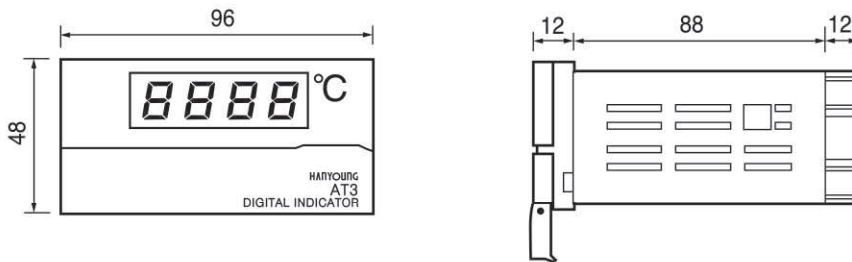
Range and input code chart

Classification	Code	Input	Range(°C)
Thermocouple	R	R	599 ~ 1699
	K	K (front panel deep switch)	0 ~ 1,300 0.0 ~ 200.0
RTD	P	Pt100 Ω	-199 ~ 600
		(front panel deep switch)	-199.9 ~ 199.9

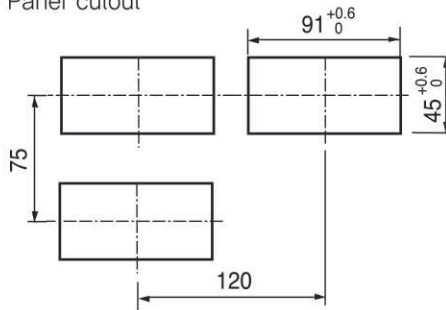
● Dimension and panel cutout (Unit : mm)

AT3

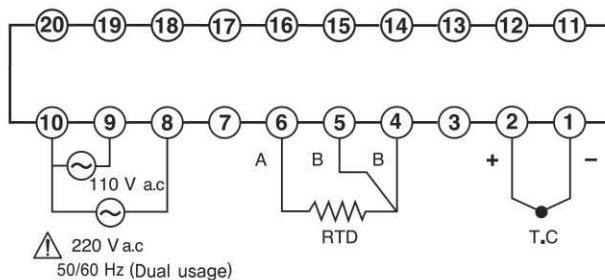
● Dimension



● Panel cutout



● Connection diagram



● K/P mode selection



K(CA) ↔ Pt100 Ω

※ K type : K thermocouple
P type : Pt100 Ω Resistance
Temperature detector