

# AT6

## Digital indicator

- 0.5 % high accuracy indicator
- Simple exclusive indication
- Free voltage (100 – 240 V AC)
- Font height 11 mm, LED applied



### ●● Suffix code

Model	Code	Description
AT6 –	<input type="checkbox"/>	Digital temperature indicator 72(W) X 36(H) X 94.5(D) mm
Input	K	K thermocouple
	J	J thermocouple
	P1	Resistance Temperature Detector(RTD) Pt100 Ω (-199 ~ 600 °C Range)
	P2	Resistance Temperature Detector(RTD) Pt100 Ω (-199.9 ~ 199.9 °C Range)
	G	0 – 5 V DC
	V	1 – 5 V DC
	F	0 – 10 V DC
	C	4 – 20 mA DC

### ●● Specification

Input	
Thermocouple	K, J
RTD	Pt100 Ω (IEC)
DC voltage	0 – 5 V, 1 – 5 V, 0 – 10 V
DC current	4 – 20 mA DC
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), 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)

A

Temperature  
Controller

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

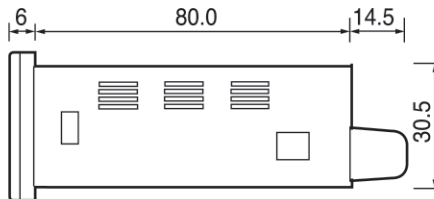
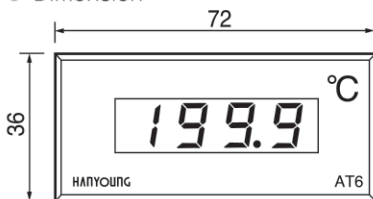
Power Supply Voltage	100 – 240 V AC 50 – 60 Hz
Voltage fluctuation	±10 % of power supply voltage
Power consumption	5 VA max
Ambient temperature	0 ~ 50 °C
Storage temperature	-25 ~ 65 °C
Vibration resistance	10 – 50 Hz, peak amplitude for 2 h each in X, Y and Z direction
Shock resistance	300 %
Weight	150 g

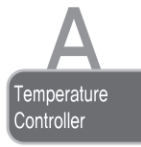
Range and input code chart

Classification	Code	Input	Range(°C)
Thermocouple	K	K thermocouple	0 ~ 1,200 °C
	J	J thermocouple	0 ~ 600 °C
RTD	P1	Pt100 Ω	-199 ~ 600 °C
	P2		-199,9 ~ 199,9 °C
DC voltage	G	0 – 5 V DC	0 ~ 100 °C
	V	1 – 5 V DC	0 ~ 100 °C
	F	0 – 10 V DC	0 ~ 100 °C
DC current	C	4 – 20 mA DC	0 ~ 100 °C

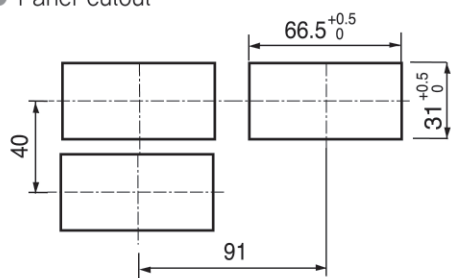
Dimension and panel cutout (Unit : mm)

Dimension

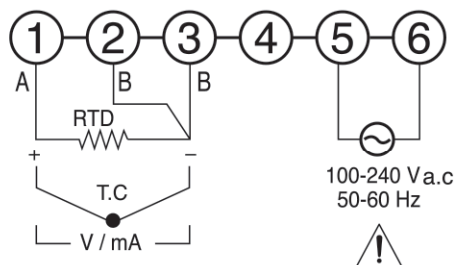




● Panel cutout



●● Connection diagram



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

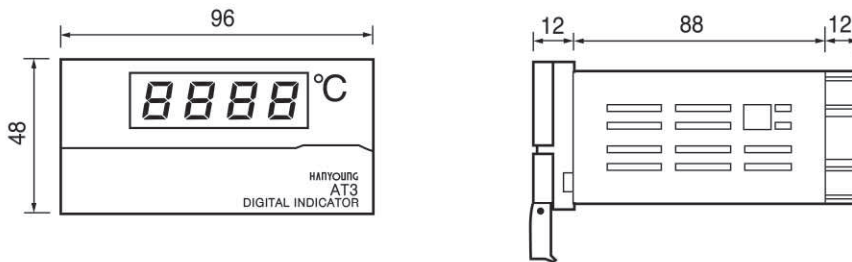
Range and input code chart

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

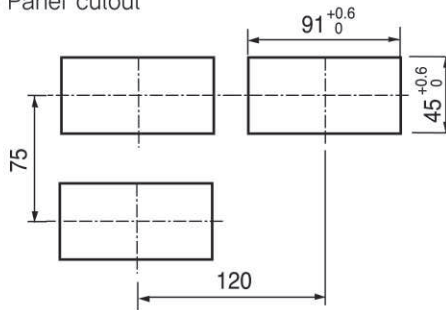
Dimension and panel cutout (Unit : mm)

AT3

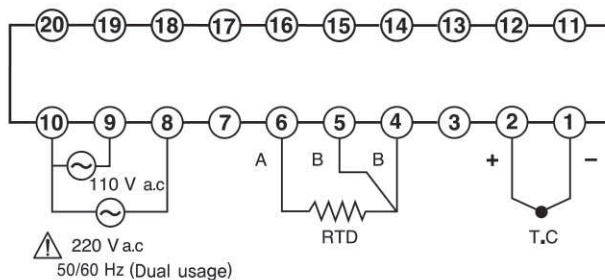
● Dimension



● Panel cutout



Connection diagram



K/P mode selection



K(CA) ↔ Pt100 Ω

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