

A

RS6

Digital temperature controller

- Cooling control, heating control selection
- Alarm output 2 contacts
- For ON/OFF control only
- 0.1C display
- Set the time of delay output



●● Suffix code

| Model | Code | Description |
|-------|--------------------------|------------------------------------|
| RS6 - | <input type="checkbox"/> | Digital temperature controller |
| Input | K | K thermocouple |
| | P | RTD Pt100 Ω (IEC) |
| | N | HANYOUNG NUX exclusive NTC (TH746) |

●● Specification

Input

| | |
|------------------------------------|--|
| Thermocouple input | K |
| RTD input | Pt100 Ω, NTC(HANYOUNG NUX exclusive) |
| Input sampling time | 500 ms |
| Input display resolution | Select 0.1 °C indication (normally less than the min indication value) |
| Input impedance | Thermocouple (10 MΩ), RTD (200 KΩ) |
| Allowable signal source resistance | Thermocouple (250 Ω max). DC voltage(2 KΩ max) |
| Allowable wiring resistance | RTD (10 Ω max. but resistance among 3 wires should be same) |
| Input compensation | ±9.9 °C |
| Input signal break detection | When exceeding the max or min range, control output becomes OFF |

Performance

| | |
|-----------------------|---|
| Display accuracy | $\pm 1\%$ of FS ± 1 Digit |
| Insulation resistance | 20 M Ω min (500 V DC) |
| Dielectric strength | 2000 V AC 50 / 60 Hz for 1 min, (between the different recharging part from each other) |

Control function and output

| | |
|----------------------------------|---|
| Control type | Only for ON/OFF control |
| Control action | Reverse action (heating) or direct action (cooling) selection |
| ON/OFF control hysteresis | 0.0 ~ 9.9 $^{\circ}\text{C}$ |
| ON/OFF control output delay time | 0 ~ 9 minute |
| Alarm type | High alarm, low alarm, hold high alarm, hold low alarm |
| Alarm setting range | Input range limit |

● Output

| | | |
|----------------|--------------------|---|
| Control output | Relay | Contact composition : 1 c contact. 250 V AC, 3 A (resistive load) |
| Alarm output | Relay (AL-1, AL-2) | Contact composition : 1 a contact. 250 V AC, 3 A (resistive load) |

General specification

| | |
|----------------------|---|
| Power Supply Voltage | 12 V AC 60 Hz |
| Voltage fluctuation | $\pm 10\%$ of the power supply voltage |
| Power consumption | 5 VA max |
| Ambient temperature | 0 ~ 50 $^{\circ}\text{C}$ |
| Ambient humidity | 35 ~ 85 % RH (without dew condensation) |
| Storage temperature | -25 ~ 65 $^{\circ}\text{C}$ |
| Vibration | 10 – 55 Hz, peak amplitude 0.76 mm for 2 min each in 3 axis direction |
| Shock | 300 $\%$, 6 each, 3 times |

Range and input code chart

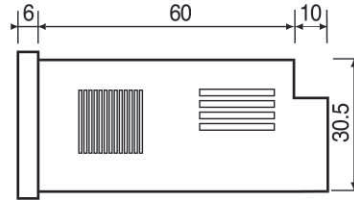
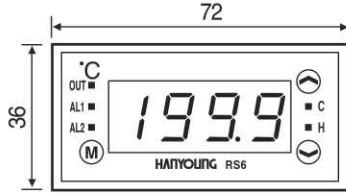
| Classification | Code | Input type | Range($^{\circ}\text{C}$) | Accuracy |
|------------------------|------|------------|-----------------------------|-------------------------------|
| Thermocouple | K | K | -50.0 ~ 199.9 | $\pm 1\%$ of FS ± 1 Digit |
| RTD | P | Pt100 | -199.9 ~ 199.9 | |
| HANYOUNG NUX exclusive | N | NTC | -40.0 ~ 80.0 | |

A

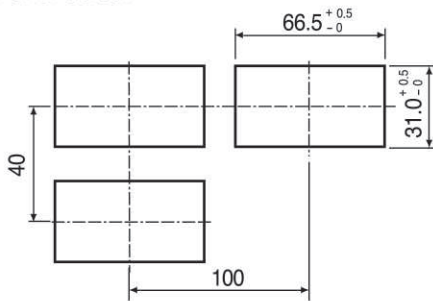
Temperature Controller

Dimension and panel cutout (Unit : mm)

Dimension



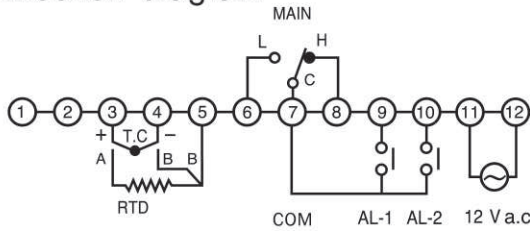
Panel cutout



Sensor (TH746)



Connection diagram



Accessory

Power transformer



| | |
|-------------------|------------------------------------|
| Model | TR-6 |
| Capacity | 3 VA |
| Primary voltage | 110 / 220 V AC (dual usage), 60 Hz |
| Secondary voltage | 12 V AC |

Dimension (Unit : mm)

