Thin type RTD temperature transducer

Model TH-2A, 5A

■ Features

- AC power supply 100 to 240V AC
- DIN rail mounting
- Input/Output/Power supply isolated

■ Ordering Code

TH– □A– □□

- Output specification
  - 0 0 to 5V DC
  - 1 1 to 5V DC
  - 2 0 to 10V DC
  - 3 -10 to 10V DC
  - A 4 to 20mA DC
  - Y Other than the above
- Input specification
  - 0 -50 to 50°C
  - 1 0 to 100°C
  - 2 0 to 200°C
  - 3 0 to 300°C
  - Y Other than the above
- Power specification
  - 2 100 to 240V AC
  - 5 24V DC

Example : TH– 5 A– 1 0

■ Input Specification

Pt100Ω (JIS C1604-1997)

Code	Input	Input allowable range
0	-50 to 50°C	-50 to +150% F.S
1	0 to 100°C	
2	0 to 200°C	
3	0 to 300°C	
Y	Other than the above	

For code No.Y limit of specifications
-50 to 800°C
Minimum span:100 to 850°C

■ Output Specification

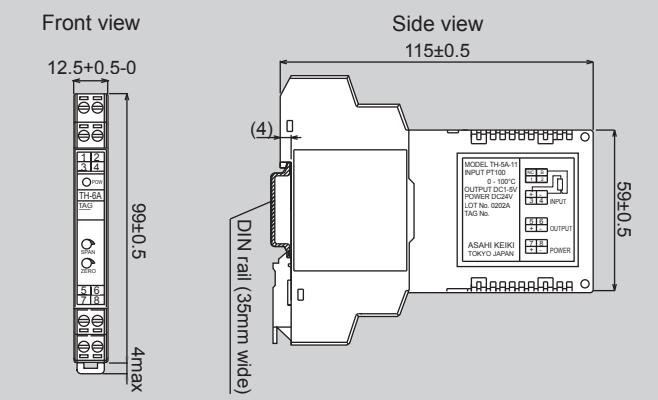
Code	Output	Load resistance
0	0 to 5V DC	More than 2KΩ
1	1 to 5V DC	
2	0 to 10V DC	More than 4KΩ
3	-10 to 10V DC	Negative output:more than 10kΩ
A	4 to 20mA DC	Less than 550Ω
Y	Other than the above	

For code No.Y limit of specifications
Voltage output:-10 to 10V DC
Minimum span:1 to 20V
Current output:0 to 20mA DC
Minimum span:1 to 20mA

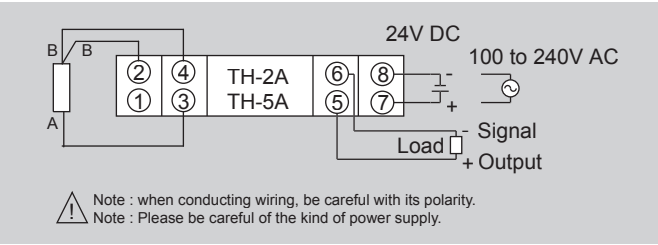
■ General Specifications

Base accuracy: ±0.2% F.S (at 25±2°C)
However, ±0.2% F.S at more than 500°C
Load resistance variation: ±0.06% F.S
Power supply variation: ±0.06% F.S
Temperature characteristic: ±0.02% F.S/°C
Response time: 50msec TYP (0 → 90%)
Disconnection detection: Upside (135±15%F.S)
Front adjustments: ±5%F.S (zero, span)
Insulation resistance: Between the input and output/power supply
More than 100MΩ at 500V DC
Dielectric strength: Between the input and output/power supply
For 1 min. at 1500V AC
Power supply voltage: 100 to 240V AC ±10%
24V DC ±10%
Consuming current: Less than 20mA (at 100V AC)
Less than 50mA (at 24V DC)
Operating ambient temperature : -5 to 50°C
Operating ambient humidity : Less than 90%RH (No-condensing)
Storage temperature : Within -10 to +70°C
Storage humidity : Less than 60%RH (No-condensing)
Case material : Black PC 94V-2
Weight : Approx. 80g

■ Dimensions



■ Connection Diagram



■ Block Diagram