Temperature Transmitter

TH-1C

■ Featuers

- Slim width 12.5mm
- DIN rail mount type
- Power supply 24VDC ±10%
- Input sensor
  R,K,E,J,T,S,B, PT-100 ohm

■ Input Specification

Sensor	Code	Input temperature	Minimum Span
R	R	0 to 1700℃	400 ℃
K	K	−50 to 1200℃	100 ℃
E	E	−50 to 900℃	100 ℃
J	J	−50 to 1000℃	100 ℃
T	T	−50 to 350℃	100 ℃
S	S	0 to 1700℃	500 ℃
B	B	200 to 1700℃	1000 ℃
Pt 100	P	−150 to 800℃	100 ℃

Thermocouple Input Specification
Accuracy of Cold Junction Compensation ±1° C (10 to 30° C)
(For thermocouples other than B type thermocouple)

RTD Input Specification
Allowable leadwire resistance: Less than 10
Current following through RTD: 1mA

■ Output Specification

Code	Output signal	Output Load resistance	Output at burnout
0	DC 0 to 5 V	More than 2k	Approx 120% F.S
1	DC 1 to 5 V		
2	DC 0 to 10 V	More than 4k	
A	DC 4 to 20 mA	Less than 550	

■ General Specification

Accuracy:	±0.25% F.S (At 25±2°C)
Temperature characteristic:	±0.02% F.S/°C
Power supply voltage variation:	±0.1% F.S
Response Time:	Less than 2 sec (0 to 90%)
Insulation resistance:	Between input and output/power supply; More than 100 M at 500 VDC
Dielectric strength:	Between input and output/power supply; For 1 min. at 1500 VAC
Power supply voltage:	24V DC±10%
Consuming current:	Less than 60 mA (At 24 VDC)
Operating ambient temperature:	-5 to 50°C
Operating ambient humidity:	Less than 90%RH (No-condensing)
Storage temperature:	-10 to 70°C
Storage humidity:	Less than 60%RH (No-condensing)
Case material:	Black PC risin 94V-2
Weight:	Approx. 80g

■ Ordering Code

Example: TH-1C-K0-1 0 to 1000℃

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Accessory code
- 0. No accessory provided
- 1. Software and cable provided

Output code
- 0. 0 to 5 VDC
- 1. 1 to 5 VDC
- 2. 0 to 10 VDC
- A. 4 to 20 mADC

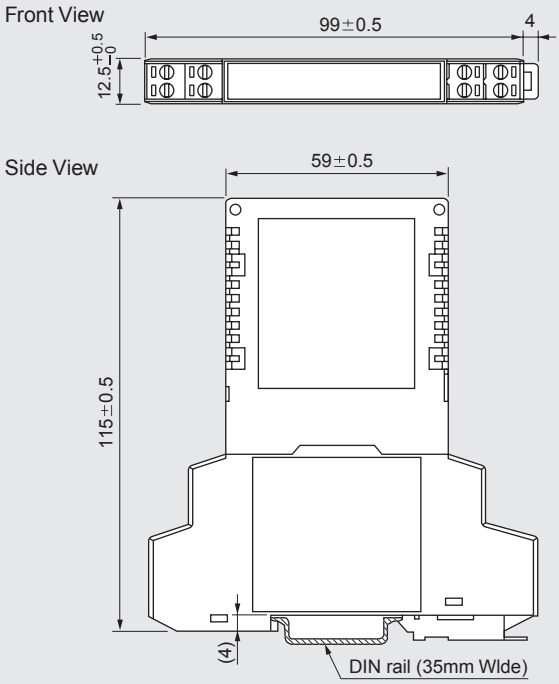
Input code 1.
- R. R Type (0 to 1700℃)
- K. K Type (0 to 1200℃)
- E. E Type (0 to 900℃)
- J. J Type (0 to 1000℃)
- T. T Type (0 to 350℃)
- S. S Type (0 to 1700℃)
- B. B Type (0 to 1700℃)

Can change input sensor

2. P. RTD Pt (0 to 800℃)

As input specifications, separately specify the zero and span temperatures (in steps of℃).
Otherwise, any one of the above temperatures is selected.
When purchasing only the setting soft cable, specify "TH-1C-XX-1."

■ Dimensions



■ Connection Diagram