

C Series 220V Single Channel Temperature Transmitter

→ Introductions

This temperature transmitter converts the thermocouple/thermal resistance signals to current or voltage signals. The input, output, and power supply are galvanically isolated from each other.

The main advantages of the isolator are fast response, low dissipation and temperature stability. It can be interfaced with all kinds of device, such as DCS, PLC and other systems.

→ Parameters

Power supply: 85 V AC ~ 265 V AC (90 V DC ~ 360 V DC)

Input (1, 2, 3):

TC: K, E, S, B, J, T, R, N, WRe3 - WRe25, WRe5 - WRe26
2/3-wire RTD: Pt100, Cu100, Cu50, BA1, BA2

The input signal needs to be determined when ordering and can also be programmed. Other signal types is required special customization, please see the product label for details.

Line resistance: $\leq 20 \Omega$ per line

Output (7, 8, 9; 10, 11, 12):

Sink mode: 4 ~ 20 mA

Current: 0(4) ~ 20 mA; 0 ~ 10 mA

Voltage: 0(1) ~ 5 V; 0 ~ 10 V

Load resistance:

Sink mode: $R_L \leq [(U-3)/0.02] \Omega$; U: Loop power supply

0(4) ~ 20 mA: $\leq 550 \Omega$; 0 ~ 10 mA: $\leq 1.1 k\Omega$

0(1) ~ 5 V: $\geq 1 M\Omega$; 0 ~ 10 V: $\geq 2 M\Omega$

Transmission characteristics (25 °C $\pm$ 2 °C):

Response time: ≤ 0.5 s

Temperature drift: 30 ppm/°C

Cold junction compensation accuracy: ± 1 °C (Preheated for 10 minutes)

Cold junction compensation range: -20 °C ~ +60 °C

Electromagnetic compatibility: Accordance to IEC 61326-3-1

Dielectric strength (1 mA leakage current, 1 minute test time):

≥ 1500 V AC (Input /Output/Power supply)

Insulation resistance: $\geq 100 M\Omega$ (Input /Output/Power supply)

Ambient conditions:

Operation temperature: -20 °C ~ +60 °C

Relative humidity: 10% RH ~ 90% RH (40 °C)

Atmosphere pressure: 80 kPa ~ 106 kPa

Storage temperature: -40 °C ~ +80 °C

Power dissipation:

≤ 0.8 W (220 V AC, no-load)

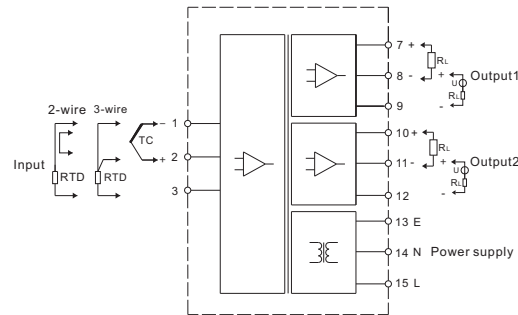
≤ 1.2 W (220 V AC, full-load)

→ Model rules

NOTE : Output signal

→ Wiring diagram

Single input, double output



○ Follow mode: W

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