

## Temperature transmitter

- RTD, TC, Ohm or mV input
- High accuracy
- Excellent EMC performance
- 1500V AC dielectric strength
- Configurable input types and ranges



### Technical data

|                  |                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Power supply:    | 12 V DC~28 V DC (Reverse power protection)                                                                                       |
| Input signal:    | K, E, S, B, J, T, R, N, etc<br>Pt100, Cu100, Cu50, BA1, BA2, etc<br>millivolt signal (-10mV~120mV)<br>resistance signal (0~400Ω) |
| Line resistance: | ≤ 20 Ω per line (RTD)                                                                                                            |
| Output signal:   | 4~20mA                                                                                                                           |
| Load resistance: | $RL \leq [(U-12)/0.022]\Omega$ ; U is loop powered voltage                                                                       |

Range and Conversion accuracy list (25°C±2°C, not contain cold junction compensation)

| Type  | Range          | Min.span/Accuracy |                    |
|-------|----------------|-------------------|--------------------|
| K     | -200°C~+1372°C | <300°C, ±0.3°C    | ≥300°C, ±0.1% F.S. |
| E     | -100°C~+1000°C | <300°C, ±0.3°C    | ≥300°C, ±0.1% F.S. |
| J     | -100°C~+1200°C | <300°C, ±0.3°C    | ≥300°C, ±0.1% F.S. |
| N     | -200°C~+1300°C | <300°C, ±0.3°C    | ≥300°C, ±0.1% F.S. |
| S     | -50°C~+1768°C  | <500°C, ±0.5°C    | ≥500°C, ±0.1% F.S. |
| R     | -50°C~+1768°C  | <500°C, ±0.5°C    | ≥500°C, ±0.1% F.S. |
| T     | -20°C~+400°C   | <300°C, ±0.3°C    | ≥300°C, ±0.1% F.S. |
| B     | +400°C~+1820°C | <500°C, ±0.5°C    | ≥500°C, ±0.1% F.S. |
| Pt100 | -200°C~+850°C  | <100°C, ±0.1°C    | ≥100°C, ±0.1% F.S. |
| Cu50  | -50°C~+150°C   | <100°C, ±0.1°C    | ≥100°C, ±0.1% F.S. |
| Cu100 | -50°C~+150°C   | <100°C, ±0.1°C    | ≥100°C, ±0.1% F.S. |
| mv    | -10mV~120mV    | <10mV, 0.01mV     | >10mV, ±0.1% F.S.  |
| Ohm   | 0~400Ω         | <50Ω, 0.05Ω       | >50Ω, ±0.1% F.S.   |

Compensation accuracy: 1°C (Temperature compensation range: -40°C ~ +85°C)

Temperature drift: 50ppm/°C

Response time: ≤ 1s

Electromagnetic compatibility: IEC 61326-1

compatibility:

Dielectric strength: ≥ 1500V AC (Input/Output)

Insulation resistance: ≥ 100MΩ (Input/Output)

Operation temperature: -40°C ~ +85°C

Storage temperature: -40°C ~ +85°C

Dimension: Ø 44×25.5mm

Wire size: 1.5mm²

Screw terminal torque: 0.5Nm

### Wiring diagram



Configurable input types and ranges