



## Temperature transmitter

### NTM 100

- 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  
Pt100, Cu100, Cu50, BA1, BA2, etc  
millivolt signal (-10mV~120mV)  
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 voltafe

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

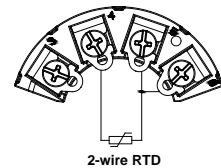
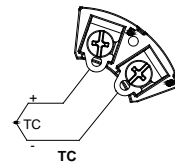
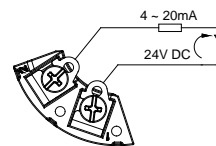
**Storage temperature:** -40°C ~ +85°C

**Dimension:** Ø 44×25.5mm

**Wire size:** 1.5mm<sup>2</sup>

**Screw terminal torque:** 0.5Nm

### Wiring diagram



Configurable input types and ranges

