Temperature transmitter

NTM 300

---RTD, TC, Ohm or mV input
---HART protocol, FDT and DTM support
---High accuracy
---Excellent EMC performacnce
---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 ≤ [(U-12)/0.022]Ω; 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 °C, ±0.1% FS
E	-100°C~+1000°C	≥300°C, ±0.1% FS
J	-180°C~+1200°C	<300°C, ±0.3°C
N	-200°C~+1300°C	<300°C, ±0.3°C
S	-50°C~+1768°C	<500°C, ±0.5°C
R	-50°C~+1768°C	<500°C, ±0.5°C
T	-20°C~+400°C	<300°C, ±0.3°C
B	+400°C~+1820°C	<500°C, ±0.5°C
Pt100	-200°C~+850°C	<100°C, ±0.1°C
Cu50	-50°C~+150°C	<100°C, ±0.1°C
Cu100	-50°C~+150°C	<100°C, ±0.1°C
mv	-10mV~120mV	<10mV, 0.01mV
Ohm	0~400Ω	<50Ω,

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

Temperature drift: 25ppm/°C

Response time: ≤ 1s

Electromagnetic compatibility: IEC 61326-1

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