Temperature transmitter

NTM 210.Ex

---TC or mV input
---High accuracy
---Excellent EMC performacnce
---1500V AC dielectric strength
---DIN B Head mount and field mount transmitters
---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
millivolt signal (-10mV~120mV)

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	≥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.
mv	-10mV~120mV	<10mV, 0.01mV	>10mV, ±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

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

Insulation resistance: ≥ 100MΩ (Input/Output)

Operation temperature: -40°C ~ +85°C

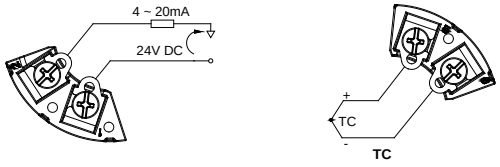
Storage temperature: -40°C ~ +85°C

Dimension: Ø 44×25.5mm

Wire size: 1.5mm²

Screw terminal torque: 0.5Nm

Wiring diagram



Explosive-proof parameters

National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)

Explosive-proof grade: Ex ia ⅡC T4/T6 Ga

T4: -40°C ~ +60°C

T6: -40°C ~ +50°C

Certified parameters (Terminals 5, 6):

U_o=5.9V I_o=24mA P_o=36mW

C_o=40μF L_o=40mH

Certified parameters (Terminals 1, 2):

U_i=28V I_i=93mA P_i=670mW

C_i=0μF L_i=0mH