

Temperature transmitter



Technical data

Power supply: 11.5V 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: $RL \leq [(U-11.5)/0.02]\Omega$; 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: 25ppm/°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 ~ +125°C

Dimension: Ø 59×31mm

Wire size: 1.5mm²

Screw terminal torque: 0.5Nm

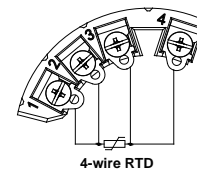
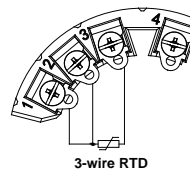
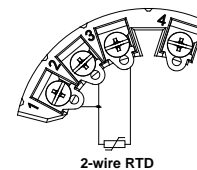
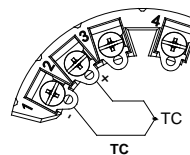
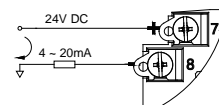
Field mount transmitter

NTM 860

- RTD, TC, Ohm or mV input
- HART protocol, FDT and DTM support
- High accuracy
- Excellent EMC performance
- 1500V AC dielectric strength
- Flameproof enclosure, aluminum or stainless steel
- Compliant to IEC 61508



Wiring diagram



Explosive-proof parameters

China National Quality Supervision and Test Centre for Explosion Protected Electrical Products(CQST)

Explosive-proof grade: Ex d IIC T6 Gb

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 1, 2, 3, 4):

$U_o=5.4V$ $I_o=25mA$ $P_o=34mW$

$C_o=50\mu F$ $L_o=40mH$

Certified parameters (Terminals 7, 8):

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

$C_i=0\mu F$ $L_i=0mH$