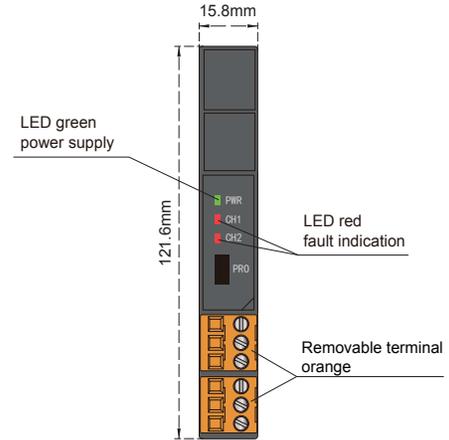


Temperature Transmitter

NPWD-H1D single input, single output
NPWD-H11D single input, double output
NPWD-HD11D double input, double output

Input: TC or RTD
 Output: 4 ~ 20 mA

This temperature transmitter converts the thermocouple or thermal resistance signals to current or voltage signals. It has external cold junction compensation terminals. The input, output, and power supply are galvanically isolated from each other. A self-test feature is also available on this device. You can use PC or handheld programmer to modify parameters.



Technical data

Power supply: 18 V DC~32 V DC (Reverse power protection)
Power dissipation: 1.0 W (24V DC, single output)
 1.5 W (24V DC, double output)
Input signal: TC, RTD
Line resistance: ≤ 20 Ω per line (RTD)
Output signal: 0/4 ~ 20mA; 0 ~ 10mA
 0/1 ~ 5V; 0 ~ 10V
Load resistance: 0/4 ~ 20mA: R_L ≤ 500Ω; 0 ~ 10mA: R_L ≤ 1kΩ
 0/1 ~ 5V: R_L ≥ 1MΩ; 0 ~ 10V: R_L ≥ 2MΩ
Compensation accuracy: 1°C (Temperature compensation range: -20°C ~ +60°C)
Temperature drift: 0.01%F.S./°C
Response time: ≤ 1s
Electromagnetic compatibility: IEC 61326-3-1
Dielectric strength: ≥ 1500 V AC (Input/Output)
 ≥ 500 V AC (Power supply/Output)
Insulation resistance: ≥ 100 MΩ (Input /Output/Power supply)
Operation temperature: -20°C ~ +60°C
Storage temperature: -40°C ~ +80°C
Dimension: 15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D)
Output states: Default following mode, it can be configured as 4mA~20mA NE43 mode or fixed output mode.

Conversion accuracy list (25°C±2°C, without Cold junction compensation)

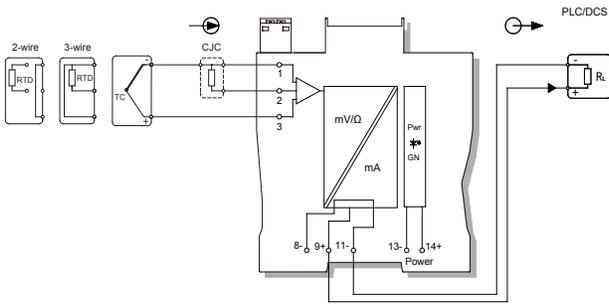
Standards	Type	Range	Min.span/Accuracy
IEC 60584-1	K	-200~1372°C	<300°C, ±0.3°C; ≥300°C, ±0.1% F.S.
	E	-120~1000°C	<300°C, ±0.3°C; ≥300°C, ±0.1% F.S.
	J	-140~1200°C	<300°C, ±0.3°C; ≥300°C, ±0.1% F.S.
	T	-270~400°C	<300°C, ±0.3°C; ≥300°C, ±0.1% F.S.
	N	-200~1300°C	<300°C, ±0.3°C; ≥300°C, ±0.1% F.S.
	S	-50~1768°C	<500°C, ±0.5°C; ≥500°C, ±0.1% F.S.
	R	-50~1768°C	<500°C, ±0.5°C; ≥500°C, ±0.1% F.S.
	B	400~1820°C	<500°C, ±0.5°C; ≥500°C, ±0.1% F.S.
	W5Re-W26Re	0~2315°C	<500°C, ±0.5°C; ≥500°C, ±0.1% F.S.
ASTM E988-96	W3Re-W25Re	0~2315°C	<500°C, ±0.5°C; ≥500°C, ±0.1% F.S.
GOST R8.585	L	-100~800°C	<300°C, ±0.3°C; ≥300°C, ±0.1% F.S.
IEC 60751	Pt100(α=0.00385)	-200~850°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Pt100(α=0.00391)	-200~850°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Cu50(α=0.00428)	-180~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Cu100(α=0.00428)	-180~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
	Cu50(α=0.00426)	-50~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.
GOST 6651	Cu100(α=0.00426)	-50~200°C	<100°C, ±0.1°C; ≥100°C, ±0.1% F.S.

Note: Other sensor input types can be ordered.

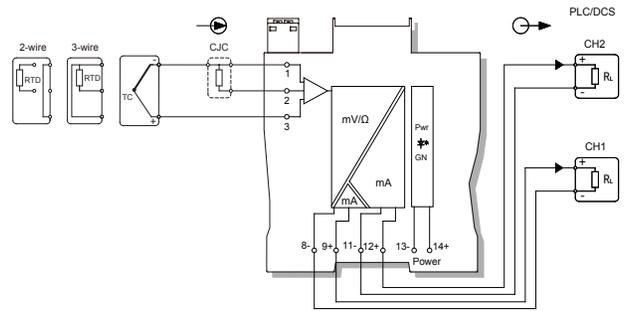
Model rules

Model		Description
NPWD-H	□ □ □ □ □	Temperature transmitter
Channel		Single as default
	D	Double channel
Output1	1	4~20mA
	2	1~5V
	3	0~10mA
	4	0~5V
	5	0~10V
	6	0~20mA
Output2		None as default
	1	4~20mA
	2	1~5V
	3	0~10mA
	4	0~5V
	5	0~10V
6	0~20mA	
Power supply	D	24V DC
Input signal		thermocouple or thermal resistance input
	.TC	thermocouple input
	.RTD	thermal resistance input

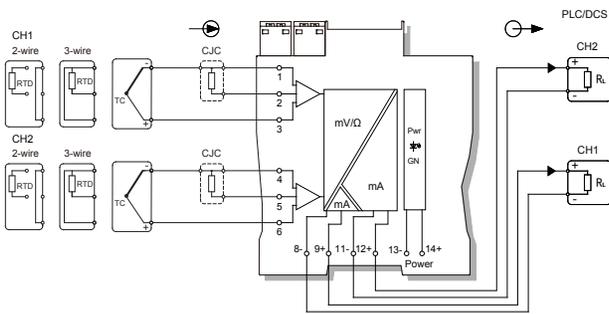
Wiring diagram



24V DC, single input, single current / voltage output



24V DC, single input, double current / voltage output



24V DC, double input, double current / voltage output