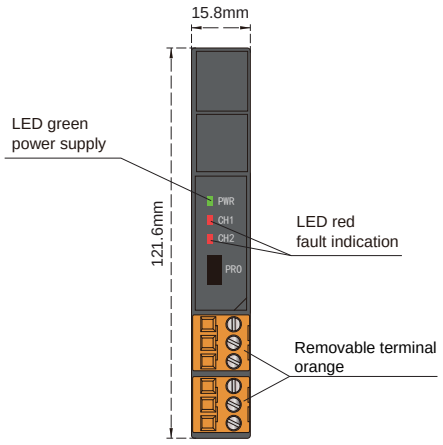
NPWD-H1D single input, single output
NPWD-H11D single input, double output
NPWD-HD11D double input, double output

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:	K, E, S, B, J, T, R, N, etc
	Pt100, Cu100, Cu50, BA1, BA2, etc
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:	Whatever input fault status (except breakage), the output follows the input within measuring range. And the maximum value would not exceed the 110% of the upper limit of the measuring range (e.g. When the output signal type is 0 ~ 20 mA, the minimum output value may be 0 mA, the maximum output value would not exceed 22 mA).

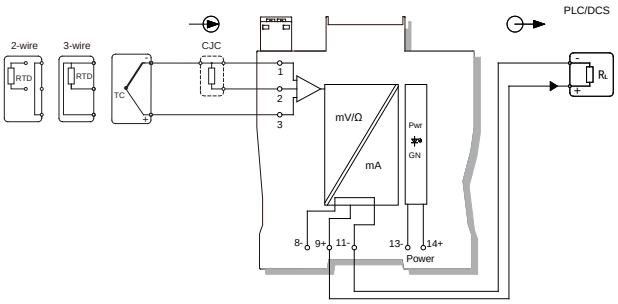
Range and Conversion accuracy list (25°C±2°C, not contain cold junction compensation):

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.

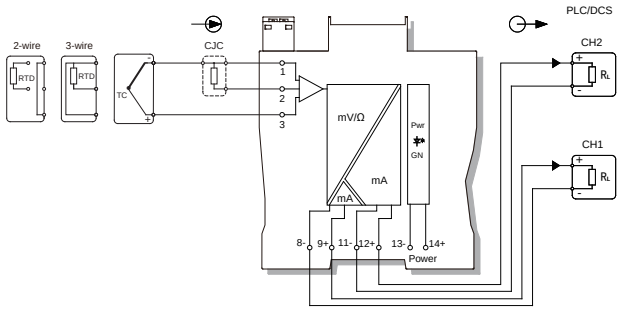
Model rules

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

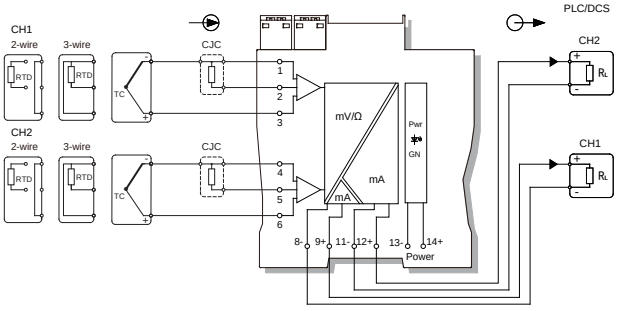
Wiring diagram



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



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



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