

NPWD-C1L.TC

Single input, single output

Input: TC

Output: 4 ~ 20 mA

This temperature transmitter converts the thermocouple signals to current signals. It can work without an independent power supply. The input, output are galvanically isolated from each other. Modify parameters by using PC or a handheld programmer.

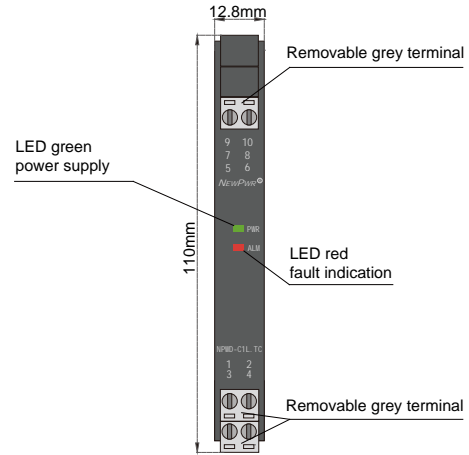
Parameters

Power supply:	12 V DC ~ 30 V DC (Reverse power protection)
Input signal:	K, E, S, B, J, T, R, N, etc
Output signal:	4 ~ 20 mA
Load resistance:	$R_L < [(U-12)/0.02]\Omega$; U is loop powered voltage
Compensation accuracy:	1 °C (Temperature compensation range: -20 °C ~ +60 °C)
Temperature drift:	30 ppm/°C
Response time:	≤ 500 ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	
Insulation resistance:	≥ 1500 V AC (Input/Output)
Operation temperature:	≥ 100 MΩ (Input/Output)
Storage temperature:	-20 °C ~ +60 °C
Dimension:	-40 °C ~ +80 °C
Output states:	12.8 mm (W) × 110 mm (H) × 117 mm (D)

Whatever input fault status (except breakage, the output is 3.5 mA), the output follows the input within measuring range. And the maximum value would not exceed 22 mA , the maximum output value would not less than 3.5 mA

Range and Conversion accuracy list

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.



Wiring diagram

