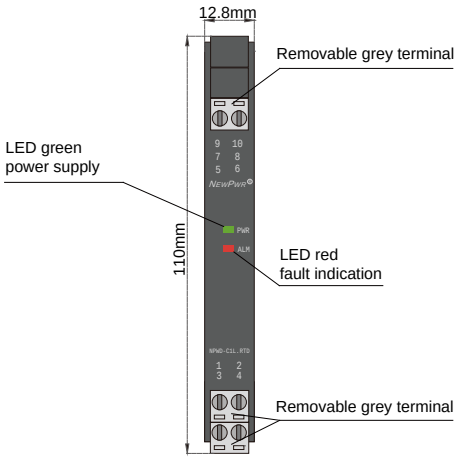
NPWD-C1L.RTD

Single input, single output

Input: RTD
Output: 4 ~ 20 mA, RS485

This temperature transmitter converts the thermal resistance 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.



RTD

Parameters

Loop Powered:	12 V DC ~ 30 V DC Reverse power protection)
Input signal:	Pt100, Cu100, Cu50, BA1, BA2, etc
Line resistance:	≤ 20 Ω per line (RTD)
Output signal:	4 ~ 20mA
Load resistance:	R_L < [(U-12)/0.02]Ω; U is loop powered voltage
Temperature drift:	30 ppm/°C
Response time:	≤ 500 ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 1500 V AC (Input/Output)
Insulation resistance:	≥ 100 MΩ (Input/Output)
Operation temperature:	-20 °C ~ +60 °C
Storage temperature:	-40 °C ~ +80 °C
Dimension:	12.8 mm (W) × 110 mm (H) × 117 mm (D)
Output states:	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	
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.

Wiring diagram