

## NPWD-CD11D.RTD

Dual input, dual output

Input: RTD

Output: 4 ~ 20 mA

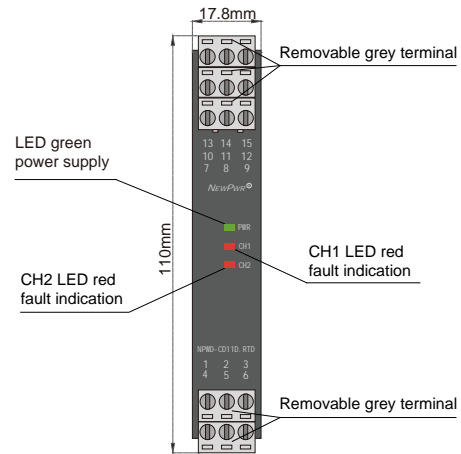
This temperature transmitter converts the thermal resistance signals to current signals. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. Modify parameters by using PC or a handheld programmer.

### Parameters

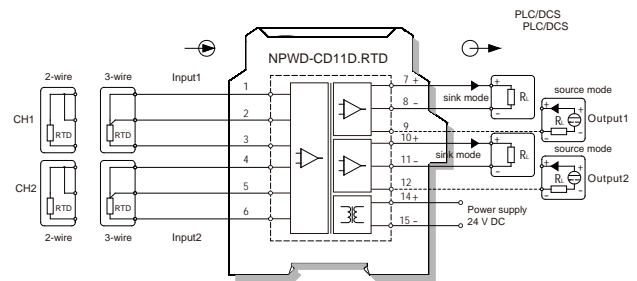
Power supply:	18 V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	1.2 W
Input signal:	Pt100, Cu100, Cu50, BA1, BA2, etc
Line resistance:	$\leq 20 \Omega$ per line (RTD)
Output signal:	4 ~ 20 mA (sink/source)
Load resistance:	source: $R_L \leq 550 \Omega$ sink: $R_L < [(U-3)/0.02] \Omega$ ; U: Loop power supply
Temperature drift:	30 ppm/°C
Response time:	$\leq 500$ ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	$\geq 1500$ V AC (Input/Output/Power supply)
Insulation resistance:	$\geq 100$ M $\Omega$ (Input/Output/Power supply)
Operation temperature:	-20 °C ~ +60 °C
Storage temperature:	-40 °C ~ +80 °C
Dimension:	17.8 mm (W) × 110 mm (H) × 117 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

Type	Range	Min.span/Accuracy	
PT100	-200°C ~ +850°C	< 100°C, $\pm 0.1^\circ\text{C}$	$\geq 100^\circ\text{C}$ , $\pm 0.1\%$ F.S.
Cu50	-50°C ~ +150°C	< 100°C, $\pm 0.1^\circ\text{C}$	$\geq 100^\circ\text{C}$ , $\pm 0.1\%$ F.S.
Cu100	-50°C ~ +150°C	< 100°C, $\pm 0.1^\circ\text{C}$	$\geq 100^\circ\text{C}$ , $\pm 0.1\%$ F.S.



### Wiring diagram



### Model rules

NPWD-CD    D  .RTD

PB : BUS powered  
Default: Terminals powered

The second output signal<sup>note1</sup>

The first output signal<sup>note1</sup>

note1 : output signal

Number	Output signal
1	4 ~ 20 mA
2	1 ~ 5 V
3	0 ~ 10 mA
4	0 ~ 5 V
5	0 ~ 10 V
6	0 ~ 20 mA