

## NPPT-C1D

Single input, single output

## NPPT-C11D

Single input, dual output

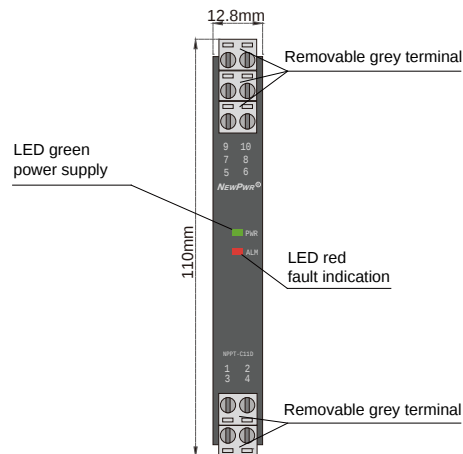
Input: 0 ~ 10 k $\Omega$

Output: 4 ~ 20 mA

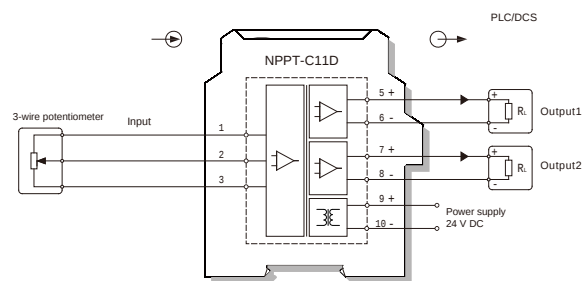
This potentiometer transmitter converts the 3-wire potentiometer signals to current signals. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. Modify parameters by using PC or a handheld programmer.

## Parameters

|                                |                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:                  | 18 V DC ~ 60 V DC (Reverse power protection)                                                                                                                                                                                                                                                                                          |
| Power dissipation:             | 0.8 W (single output)<br>1.2 W (double output)                                                                                                                                                                                                                                                                                        |
| Input signal:                  | 3-wire potentiometer (0 ~ 10 k $\Omega$ )                                                                                                                                                                                                                                                                                             |
| Output signal:                 | 4 ~ 20 mA                                                                                                                                                                                                                                                                                                                             |
| Load resistance:               | $R_L \leq 550 \Omega$                                                                                                                                                                                                                                                                                                                 |
| Accuracy:                      | 0.1% F.S.                                                                                                                                                                                                                                                                                                                             |
| Temperature drift:             | 30 ppm/ $^{\circ}$ 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 $^{\circ}$ C ~ +60 $^{\circ}$ C                                                                                                                                                                                                                                                                                                   |
| Storage temperature:           | -40 $^{\circ}$ C ~ +80 $^{\circ}$ C                                                                                                                                                                                                                                                                                                   |
| Dimension:                     | 12.8 mm (W) $\times$ 110 mm (H) $\times$ 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). |



## Wiring diagram



## Model rules

NPPT-C $\square$  $\square$ D $\square$

PB BUS powered  
Default: Terminals powered  
The second output signal<sup>note1</sup>  
Default: null  
The first output signal<sup>note1</sup>

note1 output signal

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