# Potentiometer Transmitter

NPPT-CD11D

Dual input, dual output

Input: 0 ~ 10 kΩ
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.

17.8mm

Removable grey terminal

LED green power supply

13 14 15
10 11 12
7 8 9

NEWPLUS

PWR
CH1
CH2

CH1 LED red fault indication

CH2 LED red fault indication

NPPT-CD11D

1 2 3
4 5 6

Removable grey terminal

110mm

CE

Parameters

Power supply:	18 V DC ~ 60 V DC (Reverse power protection)
Power dissipation:	1.2 W
Input signal:	3-wire potentiometer (0 ~ 10 kΩ)
Output signal:	4 ~ 20mA (sink/source)
Load resistance:	source: R_L ≤ 550Ω sink: R_L < [(U-3)/0.02]Ω; U: Loop power supply
Accuracy:	0.1% F.S.
Temperature drift:	30 ppm/°C
Response time:	≤ 500 ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	≥ 1500 V AC (Input/Output/Power supply)
Insulation resistance:	≥ 100 MΩ (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)
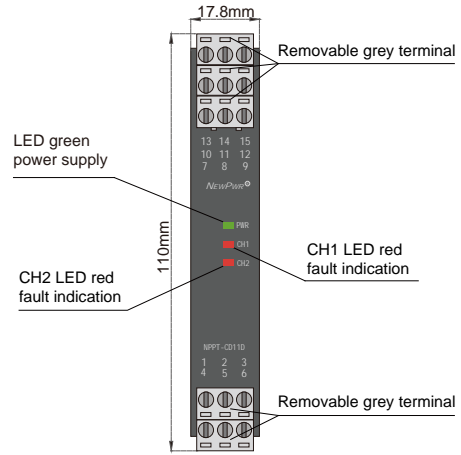
Wiring diagram
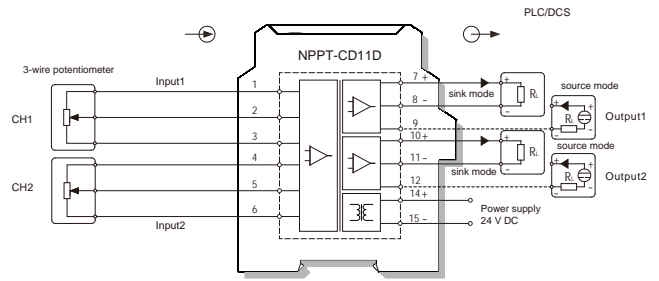
Model rules

NPPT-CD☒☒D☒

PB：BUS powered
Default: Terminals powered

The second output signal[note1]

The first output signal[note1]

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

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