

C Series  
Single Channel  
Potentiometer Transmitter

→ Introductions

This potentiometer transmitter converts the 3-wire potentiometer signals to current or voltage signals. DIN rail power supply function can be selected in ordering.

The input, output, and power supply are galvanically isolated from each other. You can use handheld programmer to modify parameters or to calibrate the apparatus.

→ Parameters

Power supply:

Connection type: Terminals (9+, 10-) or DIN rail connector

Rated voltage: 18 V DC ~ 60 V DC (Recommended voltage: 24 V DC)

Input (1, 2, 3):

3-wire potentiometer: 0 Ω ~ 10 kΩ

Output (5, 6; 7, 8):

Output current: 0(4) ~ 20 mA; 0 ~ 10 mA

Output voltage: 0(1) ~ 5 V; 0 ~ 10 V

Load resistance:

0(4) ~ 20 mA: ≤ 550 Ω; 0 ~ 10 mA: ≤ 1.1 kΩ

0(1) ~ 5 V: ≥ 1 MΩ; 0 ~ 10 V: ≥ 2 MΩ

Transmission characteristics:

Accuracy: ± 0.1% F.S. (25 °C ± 2 °C)

Response time: ≤ 0.5 s

Temperature drift: 30 ppm/°C

Electromagnetic compatibility: Accordance to IEC 61326-3-1

Dielectric strength (1 mA leakage current, 1 minute test time):

≥ 1500 V AC (Input /Output/Power supply)

Ambient conditions:

Operation temperature: -20 °C ~ +60 °C

Relative humidity: 10% RH ~ 90% RH (40 °C)

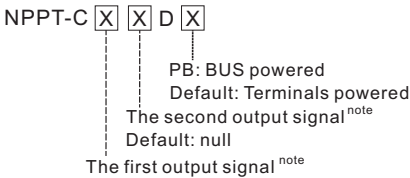
Atmosphere pressure: 80 kPa ~ 106 kPa

Storage temperature: -40 °C ~ +80 °C

Power dissipation:

0.8 W (24 V DC, single output)

1.2 W (24 V DC, double output)

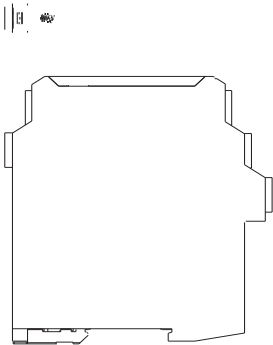


| Number | Output signal               |
|--------|-----------------------------|
| 1      | 4 mA ~ 20 mA                |
| 2      | 1 V ~ 5 V                   |
| 3      | 0 mA ~ 10 mA                |
| 4      | 0 V ~ 5 V                   |
| 5      | 0 V ~ 10 V                  |
| 6      | 0 mA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

- Follow mode: 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).
- DIN rail power supply function is selectable at ordering.

→ Dimension

Width × Height × Depth: 12.8 mm × 110 mm × 117 mm



Nanjing New Power Electric Co., Ltd.

→ **BUS Specification**

→ **Installation**

- The apparatus can be installed on the DIN 35 mm standard rail which is