C Series
Single Channel
Potentiometer Transmitter

Nanjing New Power Electric Co., Ltd.

➔ 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+, 0-) or DIN rail connector

Rated voltage: 8 V DC ~ 60 V DC (Recommended voltage: 24 V DC)

Input (1, 2, 3):

3-wire potentiometer: 0 Ω ~ 0 kΩ

Output (5, 6; 7, 8):

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

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

Load resistance:

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

0( ) ~ 5 V: ≥ MΩ; 0 ~ 0 V: ≥ 2 MΩ

Transmission characteristics:

Accuracy: ± 0. % F.S. (25 ℃ ± 2 ℃)

Response time: ≤ 0.5 s

Temperature drift: 30 ppm/℃

Electromagnetic compatibility: Accordance to IEC 6 326-3-

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

≥ 500 V AC (Input /Output/Power supply)

Ambient conditions:

Operation temperature: −20 ℃ ~ +60 ℃

Relative humidity: 0% RH ~ 90% RH (40 ℃)

Atmosphere pressure: 80 kPa ~ 06 kPa

Storage temperature: −40 ℃ ~ +80 ℃

Power dissipation:

0.8 W (24 V DC, single output)

.2 W (24 V DC, double output)

NPPT-C [X] [X] D [X]

- [X] (last): PB: BUS powered; Default: Terminals powered
- [X] (second): The second output signal [note]; Default: null
- [X] (first): The first output signal [note]

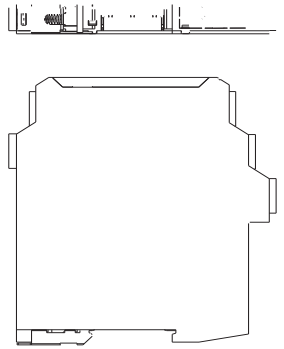
Number	Output signal
	4 mA ~ 20 mA
2	V ~ 5 V
3	0 mA ~ 0 mA
4	0 V ~ 5 V
5	0 V ~ 0 V
6	0 mA ~ 20 mA
X	User customized signal type

❍ Follow mode: Whatever input fault status (except breakage), the output follows the input within measuring range. And the maximum value would not exceed the 0% 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: 2.8 mm × 0 mm × 7 mm



➔ **BUS Specification**

➔ **Installation**

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