C Series
Single Channel
Resistance Transmitter

Nanjing New Power Electric Co., Ltd.

➔ Introductions

This resistance transmitter converts the resistance signals to current or voltage signals. The input, output, and power supply are galvanically isolated from each other. DIN rail power supply function can be selected in ordering.

This product is designed intelligently and has many functions that traditional products do not have. It adopts digital adjustment, potentiometer free, automatic zero calibration and other advanced technologies. It can be interfaced with all kinds of device, such as DCS, PLC and other systems.

➔ 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): 2/3-wire resistance signal

Please see the product label for details.

Line resistance: ≤ 20 Ω per line

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 ℃± 2 ℃)

Response time: ≤ 0.5 s

Temperature drift: 30 ppm/℃

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)

Insulation resistance: ≥ 100 MΩ (Input /Output/Power supply)

Ambient conditions:

Operation temperature: −20 ℃~ +60 ℃

Relative humidity: 10% RH ~ 90% RH (40 ℃)

Atmosphere pressure: 80 kPa ~ 106 kPa

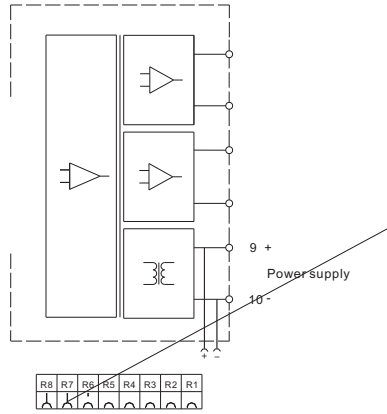
Storage temperature: −40 ℃ ~ +80 ℃

Power dissipation:

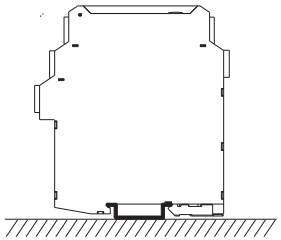
0.8 W (24 V DC, single output)

1.2 W (24 V DC, double output)

Single input, double output



BUS	Electrical Characteristics
Current	Max. 8 A
Voltage (UL/IEC)	1.6 kV
Operation temperature	−40 ℃ ~+105 ℃



C. Pry the metal lock off the rail with screwdriver as arrow shown, pull downward the springs, and rotate the device.

D. Remove the device as arrow shows.

❍ As far as possible to mount it vertically, In order to dissipation the heat of the apparatus.

Vertically installation