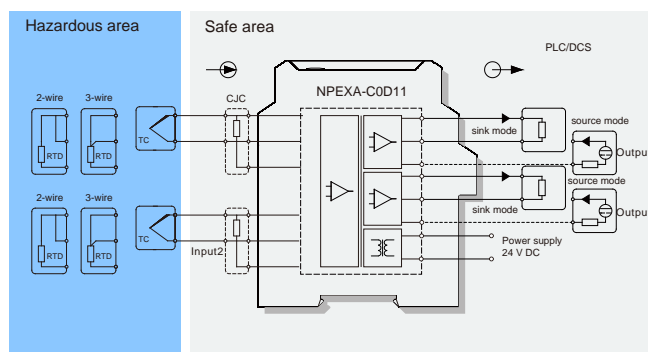


Temperature input isolated barrier, it converts the thermocouple or thermal resistance signals from a hazardous area into 4~20mA signals to a safe area by isolation. It has external cold junction compensation terminals. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. The self-test function is also available on this device. Calibrate the apparatus or modify parameters by using a handheld programmer.

- Power supply: 18V DC ~ 60V DC (Reverse power protection)
- Power dissipation: 1.2W
- Input signal: TC, RTD
- Line resistance: 20  $\Omega$  per line (RTD)
- Output signal: 4 ~ 20mA (sink/source)
- Load resistance: source:  $R_L \leq 500$  sink:  $R_L < [(U-3)/0.02]$  ;  
U: Loop power supply
- Compensation accuracy: 1°C (Temperature compensation range: -20°C ~ +60°C)
- Temperature drift: 30ppm/°C
- Response time: 500ms
- Electromagnetic compatibility: IEC 61326-3-1
- Dielectric strength: 3000V AC (intrinsically safe side / non-intrinsically safe side)  
1500V AC (Power supply /non-intrinsically safe side)
- Insulation resistance: 100M (Input /Output/Power supply)
- Operation temperature: -20°C ~ +60°C
- Storage temperature: -40°C ~ +80°C
- Dimension: 17.8mm (W) × 110mm (H) × 117mm (D)
- Output states: Default following mode, it can be configured as 4mA~20mA NE43 mode or fixed output mode.



National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)

Ex marking:

Um: 250V

Certified parameters (Terminals 1, 2, 3; 4, 5, 6):

- Uo=8.7V, Io=33mA, Po=72mW
- : Co=5 $\mu$ F, Lo=28mH
- : Co=49 $\mu$ F, Lo=84mH

NPEXA-C0D

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

note1: output signal

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