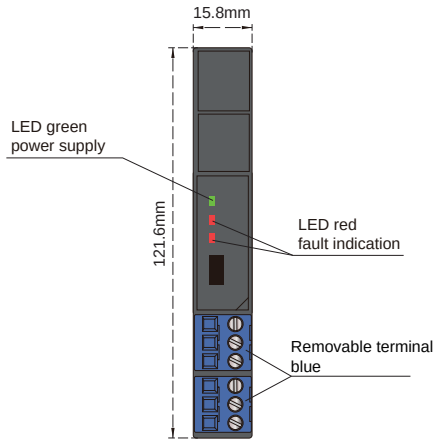
## NPEXA-H2D11 double input, double output

Input: RTD
Output: 4 ~ 20 mA

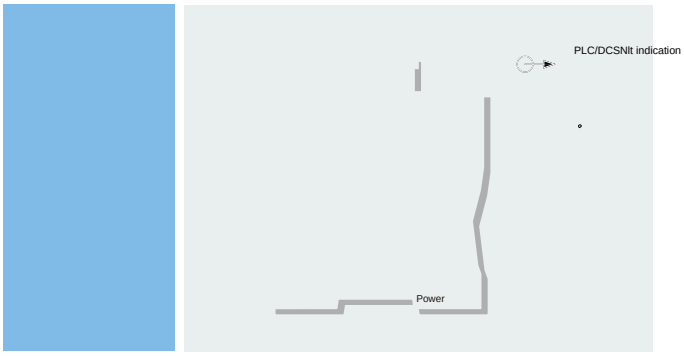
Temperature input safety barrier, it converts the thermal resistance signals from a hazardous area into current signals to a safe area by isolation. The input, output, and power supply are galvanically isolated from each other. A self-test feature is also available on this device. You can use PC or handheld programmer to modify parameters.




## Technical data

| | |
|---|---|
| Power supply: | 18 V DC~32 V DC (Reverse power protection) |
| Power dissipation: | 1.5 W (24V DC, double output) |
| Input signal: | RTD |
| Line resistance: | ≤ 20 Ω per line (RTD) |
| Output signal: | 4 ~ 20 mA |
| Load resistance: | $R_L \leq 500\ \Omega$ |
| Temperature drift: | 0.01%F.S./°C |
| Response time: | ≤ 1s |
| Electromagnetic compatibility: | IEC 61326-3-1 |
| Dielectric strength: | ≥ 2500 V AC (intrinsically safe side / non-intrinsically safe side)<br>≥ 500 V AC (Power supply side / non-intrinsically safe side) |
| Insulation resistance: | ≥ 100 MΩ ( Input /Output/Power supply) |
| Operation temperature: | -20°C ~ +60°C |
| Storage temperature: | -40°C ~ +80°C |
| Dimension: | 15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D) |
| Output states: | Default following mode, it can be configured as 4mA~20mA NE43 mode or fixed output mode. |

## Wiring diagram




## Explosive-proof parameters

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

Explosive-proof grade: [Ex ia Ga] II C

Um: 250 V

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

Uo=7.3V, Io=27mA, Po=50mW

II C Co=12μF Lo=28mH

II B Co=151μF Lo=84mH

II A Co=700μF Lo=224mH

## Model rules