

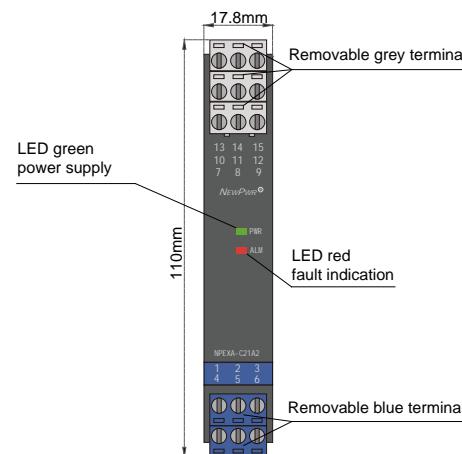
**NPEXA-C21A2**

Single input, three outputs

Input: RTD

Output: 4 ~ 20 mA , relay

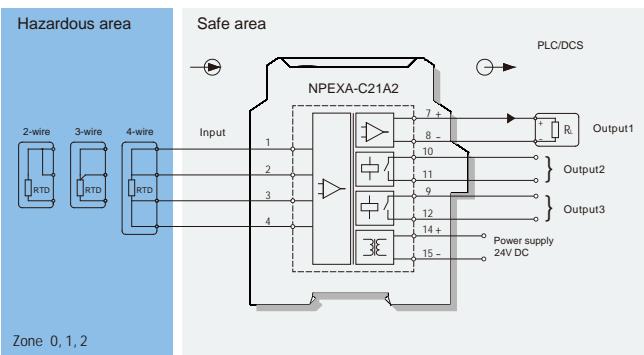
Temperature input isolated barrier, it converts the resistance signals from a hazardous area into 4~20mA signals to a safe area by isolation, two relay alarm outputs. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. The self-test function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

**Parameters**

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	1.5W
Input signal:	Pt100, Cu100, Cu50, BA1, BA2, etc.
Line resistance:	≤ 20Ω per line (RTD)
Output signal:	Output1: 4 ~ 20mA Output2, Output3: relay contact (alarm value, hysteresis and delay time can be set)
Load resistance:	RL ≤ 550Ω
Load capacity:	250VAC/2A, 30VDC/2A
Temperature drift:	30ppm/°C
Response time:	≤ 1s
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:	≥ 100MΩ (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:	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 ~ 20mA, the minimum output value may be 0mA, the maximum output value would not exceed 22mA)

## Range and Conversion accuracy list

Type	Range	Min.span/Accuracy
PT100	-200°C ~ +850°C	< 100°C, ±0.1°C      ≥ 100°C, ±0.1% F.S.
Cu50	-50°C ~ +150°C	< 100°C, ±0.1°C      ≥ 100°C, ±0.1% F.S.
Cu100	-50°C ~ +150°C	< 100°C, ±0.1°C      ≥ 100°C, ±0.1% F.S.

**Wiring diagram****Explosive-proof parameters**

China National Quality Supervision and Test Centre for Explosion Protected Electrical Products (CQST)

Ex marking: [Ex ia Ga] II C

Um: 250V

Certified parameters (Terminals 1, 2, 3, 4):

Uo=10.5V, Io=38mA, Po=100mW

II C: Co=0.65μF, Lo=14mH

II B: Co=11.7μF, Lo=42mH

II A: Co=52μF, Lo=112mH

**Model rules**

NPEXA-C2XA2X  
 PB: BUS powered  
 Default: Terminals powered  
 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