NPEXA-C21
Single input, single output

NPEXA-C211
Single input, double outputs

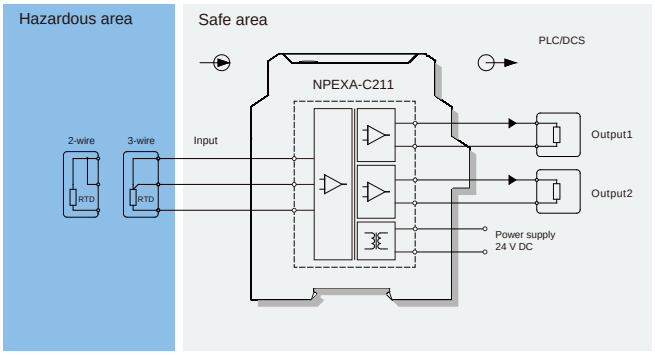
Input: RTD
Output: 4 ~ 20 mA

Temperature input isolated barrier, it converts the thermal resistance signals from a hazardous area into 4~20mA signals to a safe area by isolation. 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:	0.8W (single output)
	1.2W (double outputs)
Input signal:	RTD
Line resistance:	Ò 20q per line (RTD)
Output signal:	4 ~ 20mA
Load resistance:	RL Ò 550q
Temperature drift:	30ppm/°C
Response time:	Ò 500ms
Electromagnetic compatibility:	IEC 61326-3-1
Dielectric strength:	Ó 3000V AC (intrinsically safe side / non-intrinsically safe side)
	Ó 1500V AC (Power supply /non-intrinsically safe side)
Insulation resistance:	Ó 100Mq (Input /Output/Power supply)
Operation temperature:	-20°C ~ +60°C
Storage temperature:	-40°C ~ +80°C
Dimension:	12.8mm (W) × 110mm (H) × 117mm (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)
Ex marking:

Um: 250V
Certified parameters (Terminals 1, 2, 3):
Uo=8.7V, Io=33mA, Po=72mW
: Co=5εF, Lo=28mH
: Co=49εF, Lo=84mH

Model rules

NPEXA-C2☒☒☒

- PB: BUS powered
- Default: Terminals powered
- The second output signal[note1]
- Default: null
- The first output signal[note1]

note1: output signal

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