

Single input, double outputs

Input: 4 ~ 20 mA

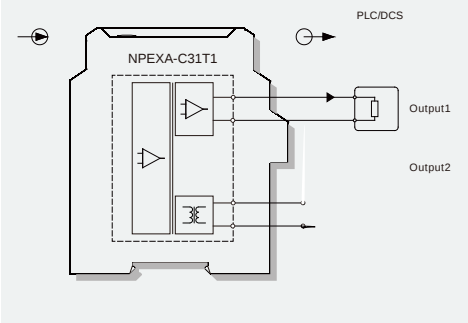
Output: 4 ~ 20 mA, RS485

Analog input isolated barrier, it detects loop current and converts it from a hazardous area into 4~20mA and RS485 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. Calibrate the apparatus or modify parameters by using a handheld programmer.

Power supply:	18V DC ~ 60V DC (Reverse power protection)
Power dissipation:	1.6W
Input signal:	4 ~ 20mA
Input resistance:	approx. 100Ω
Available voltage:	open-circuit voltage ≤ 26V voltage: ≥ 16V at 20mA
Output signal:	Output1: 4 ~ 20mA Output2: RS485
Load resistance:	$R_L \leq 550\Omega$
Communication parameters:	MODBUS-RTU, distance ≤ 1000m
Baud rate:	≤ 19.2kbps
Accuracy:	0.1%F.S.
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:	≥ 100MΩ (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:	Whatever input fault status (except breakage or short circuit, the output is 0V/mA), 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)

Hazardous area

Safe area



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

Ex marking: [Ex ia Ga] C
[Ex ia Da] C

Um: 250V

Certified parameters (Terminals 1, 2):

Uo=8.7V

C: Co=5μF

C (B): Co=49μF

Certified parameters (Terminals 1, 3):

Uo=28V, Io=93mA, Po=651mW

C: Co=0.07μF, Lo=4.2mH

C (B): Co=0.64μF, Lo=12.6mH