

## NPEXA-CM17

Single input, single output

## NPEXA-CM177

Single input, double outputs

Input: Millivolt

Output: 1:1 mV

Millivolt input isolated barrier, it transfers the millivolt signals from a hazardous area to a safe area. It needs an independent power supply. The input, output, and power supply are galvanically isolated from each other. It has the function of setting over range output when the input is disconnected.

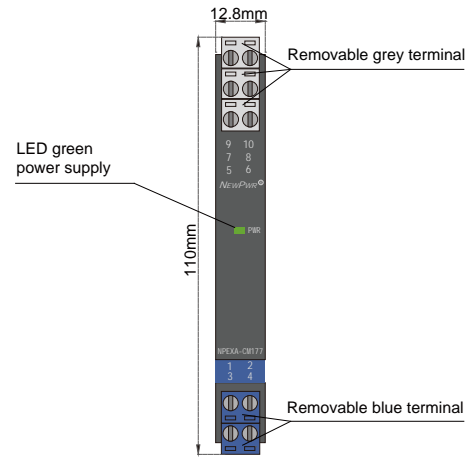
### Parameters

Power supply:	18V DC ~ 32V DC (Reverse power protection)
Power dissipation:	0.4W (single output) 0.8W (double outputs)
Input signal:	-100mV ~ 100mV
Input resistance:	≥ 20MΩ
Output signal:	1:1 mV
Output resistance:	55Ω
Compensation accuracy:	0.05%F.S.
Temperature drift:	0.005%F.S./°C
Response time:	≤ 2ms
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)

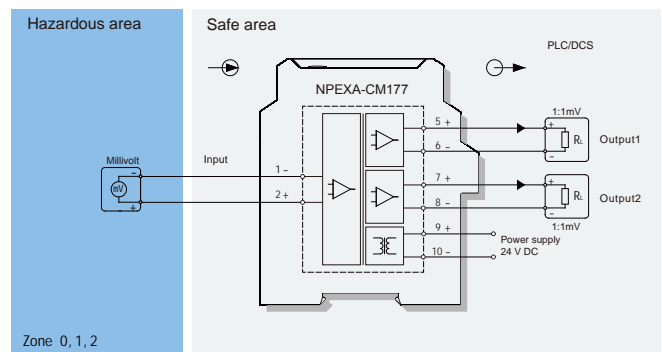
### DIP switch settings

S1 and S2 cannot be set to ON at the same time

DIP Switch		Output
S1	S2	(Input is disconnected)
ON	OFF	< -100mV
OFF	ON	> 100mV
OFF	OFF	The output follows the input



### Wiring diagram



### Explosive-proof parameters

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

Ex marking: [Ex ia Ga] IIC

Um: 250V

Certified parameters (Terminals 1, 2):

Uo=5V, Io=15.3mA, Po=19.1mW

II C: Co=70μF, Lo=92mH

II B: Co=70μF, Lo=276mH

II A: Co=700μF, Lo=736mH