

- NPGL-HM11D

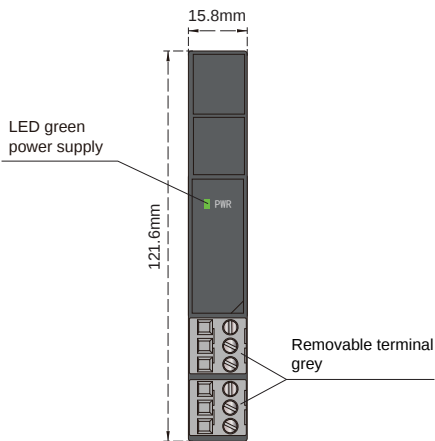
single input, single output
- NPGL-HM111D

single input, double output
- NPGL-HMD111D

double input, double output
- Input: 4 ~ 20 mA

Output: 4 ~ 20 mA

This isolator converts the current or voltage signals to current or voltage signals. It allows transmission of HART communication signals. The input, output, and power supply are galvanically isolated from each other.



Technical data

- Power supply:

18 V DC~32 V DC (Reverse power protection)
- Power dissipation:

≤ 1.3 W (24V DC, single input single output)
≤ 1.8 W (24V DC, single input double output)
≤ 2.5 W (24V DC, double input double output)
- Input signal:

Current: 0/4 ~ 20mA; 0 ~ 10mA
Voltage: 0/1 ~ 5V; 0 ~ 10V
- Input resistance:

Current: approx. 50 Ω
Voltage: ≥ 1MΩ
- Available voltage:

open-circuit voltage: ≤ 27 V
voltage: ≥ 22 V at 20 mA
- Output signal:

Sink mode: 4 ~ 20mA
Current: 0/4 ~ 20mA; 0 ~ 10mA
Voltage: 0/1 ~ 5V; 0 ~ 10V
- Load resistance:

Sink mode: $R_L \leq [(U-3)/0.02]\Omega$; U: Loop power supply
0/4 ~ 20mA: $R_L \leq 450\Omega$; 0 ~ 10mA: $R_L \leq 900\Omega$
0/1 ~ 5V: $R_L \geq 1M\Omega$; 0 ~ 10V: $R_L \geq 2M\Omega$
- Accuracy:

± 0.1%F.S.
- Temperature drift:

0.005%F.S./°C
- Response time:

≤ 2ms
- Electromagnetic compatibility:

IEC 61326-3-1
- Dielectric strength:

≥ 1500 V AC (Input/Output)
≥ 500 V AC (Power supply/Output)
- Insulation resistance:

≥ 100 MΩ (Input /Output/Power supply)
- Operation temperature:

-20°C ~ +60°C
- Storage temperature:

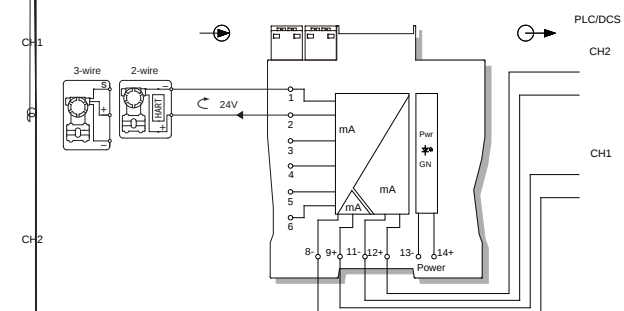
-40°C ~ +80°C
- Dimension:

15.8 mm (W) × 121.6 mm (H) × 104.8 mm (D)

Model rules

Model					Description
NPWD-HM	☐	☐	☐	☐	Isolator
Channel					Single as default
	D				Double channel
Input	1				4~20mA
	2				1~5V
	3				0~10mA
	4				0~5V
	5				0~10V
	6				0~20mA
Output1	1				4~20mA
	1S				Output sink mode: 4~20mA
	2				1~5V
	3				0~10mA
	4				0~5V
	5				0~10V
Output2	6				0~20mA
					None as default
	1				4~20mA
	1S				Output sink mode: 4~20mA
	2				1~5V
	3				0~10mA
Power supply	4				0~5V
	5				0~10V
	6				0~20mA
	D				24V DC

Wiring diagram



24V DC, double current input, double source current output

24V DC, double current input, double sink current output

24V DC, single voltage input, double current / voltage output