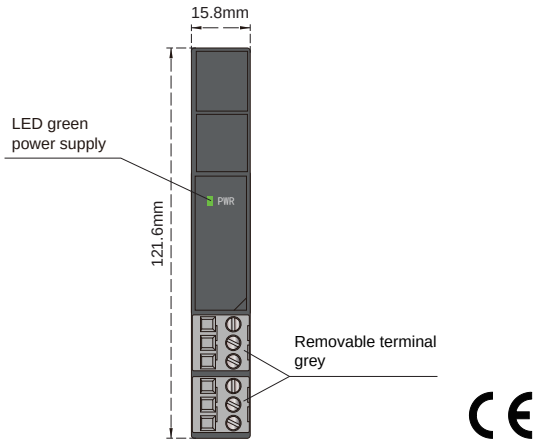
NPGL-HM11D single input, single output
NPGL-HM111D single input, double output
NPGL-HMD111D double input, double output

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.



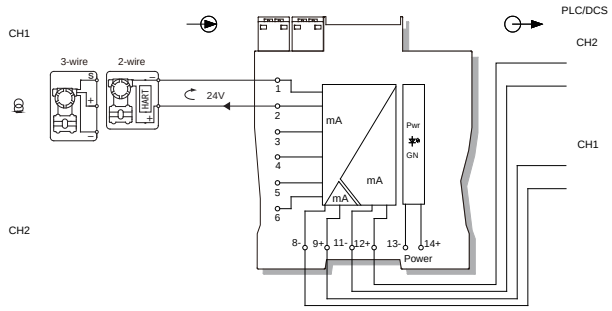
Technical data

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 ≤ [(U-3)/0.02]Ω; U: Loop power supply
	0/4 ~ 20mA: R_L ≤ 450Ω; 0 ~ 10mA: R_L ≤ 900Ω
	0/1 ~ 5V: R_L ≥ 1MΩ; 0 ~ 10V: R_L ≥ 2MΩ
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
			6			0~20mA
Output2						None as default
				1		4~20mA
				1S		Output sink mode: 4~20mA
				2		1~5V
				3		0~10mA
				4		0~5V
				5		0~10V
				6		0~20mA
Power supply					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