

SHP

RoHS

Potentiometer Transmitter (1-output)

Features:

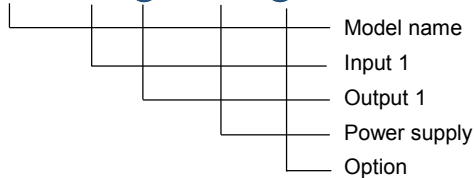
SHP (1-input 1-output) converts the signal from a potentiometer (in proportion to valve opening) into isolated DC voltage/current.

Functions: (Can be changed via the Setting Software)

- Sensor correction (Input value correction)
- Normal/Reverse mode
- Filter time constant
- Output type
- Output high and low limits



Model: **SHP - PM** ② - **0** - ④



INPUT 1

PM	Potentiometer Resistance 100Ω to 10kΩ
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Power Supply

0	100 to 240V AC 50/60Hz
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② OUTPUT 1

DC Current	1	4 to 20mA (allowable load resistance 750Ω max.)
	2	0 to 20mA (allowable load resistance 750Ω max.)※1
	3	0 to 16mA (allowable load resistance 900Ω max.)※1
	4	2 to 10mA (allowable load resistance 1500Ω max.)
	5	0 to 10mA (allowable load resistance 1500Ω max.)※1
DC Voltage	A	0 to 10mV (allowable load resistance 10kΩ min.)※2
	B	0 to 100mV (allowable load resistance 100kΩ min.)※2
	C	0 to 1V (allowable load resistance 1000Ω min.)※2
	D	0 to 5V (allowable load resistance 5000Ω min.)※2
	E	1 to 5V (allowable load resistance 5000Ω min.)
	F	0 to 10V (allowable load resistance 10kΩ min.)※2
	G	-5 to 5V (allowable load resistance 10kΩ min.)

※1: 0mA or less: Out of base accuracy.
 ※2: 0V or less: Out of base accuracy.

④ Option

0	No option needed
2	Moisture-proof treatment

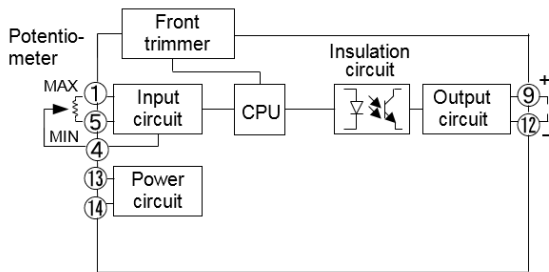
Performance

Base accuracy (at 25°C)	±0.1% of each input span
Temperature coefficient	± 0.015%/°C (0 to 10mV output: ±0.02%/°C)
Response time	0.5 sec. max. (0→90%)
Insulation resistance	100MΩ minimum, at 500V DC
Dielectric strength	2.0kV AC for 1 minute

General Specifications

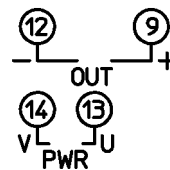
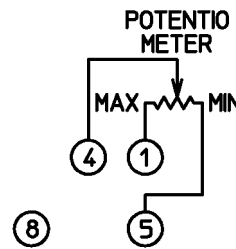
Input	Total resistance: 100Ω to 10kΩ, Excitation: 0.5V DC, Minimum span: 50% of total resistance.		
Input zero adjustment range	0 to 50% of total resistance	Input span adjustment range	50 to 100% of total resistance
Power supply	100 to 240V AC 50/60Hz	Allowable voltage range	85 to 264V AC
Power consumption	Approx. 9 VA max.		
Operating temperature, humidity	-10 to 55°C (Non-condensing, No icing), 35 to 85%RH (Non-condensing)		
Storage temperature	-10 to 60°C		
Material	Case: Flame-resistant resin, Black color, Panel: Polycarbonate		
Mounting method	DIN rail		
External dimensions	22.5(W) x 89(H) x 70(D)mm (without socket)		
Weight	Approx. 76g (without socket)		

Circuit Configuration



Terminal Arrangement

PWR ⑬ - ⑭	Power supply voltage 100 to 240V AC
OUT ⑨ - ⑫	Output
Potentiometer ①-④-⑤	Potentiometer input



(8P Socket)