

## SHR

RoHS

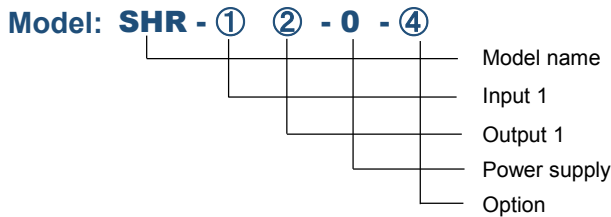
## RTD Transmitter (1-output)

## Features:

SHR (1-input 1-output) converts RTD input signal (JP100, JPt100) into isolated DC voltage/current.

## Functions: (Can be changed via the Setting Software)

- Temperature range
- Sensor correction (Input value correction)
- Normal/Reverse mode
- Filter time constant
- Input and output types
- Output high & low limits



## ① INPUT 1

RTD	P0	Pt100
	P1	
	P2	
	P3	JPt100

## 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
1	Multi-rotation trimmer
2	Moisture-proof treatment
3	Multi-rotation trimmer + Moisture-proof treatment

**Performance**

Base accuracy (at 25°C)	±0.1% of each input span, or ±0.3°C, whichever is greater.
Temperature coefficient	± 0.015%/°C (0 to 10mV output: ±0.02%/°C)
Effect of allowable lead wire resistance	Less than 20Ω per wire: Base accuracy 20Ω or more per wire: Base accuracy + 0.005 %/Ω
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	Pt100, JPt100 Input detection current: Approx. 200μ A, Allowable lead wire resistance: 200Ω or less per wire		
Zero adjustment range	-5 to 5%(Adjustable from front panel.)	Span adjustment range	95 to 105% (Adjustable from front panel.)
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)		

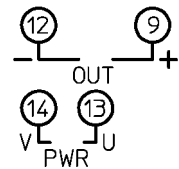
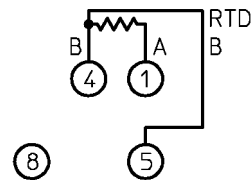
**Measurement Range**

Input Code	Measurement Range ※	
P0	-200 to 650 °C	-328 to 1202 °F
P1	-100 to 100 °C	-148 to 212 °F
P2	-200 to 500 °C	-328 to 932 °F
P3	-100 to 100 °C	-148 to 212 °F

※ Please specify the input span. Minimum span is 50°C or 100°F.

**Terminal Arrangement**

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



(8P Socket)

**Circuit Configuration**

