

SHT

RoHS

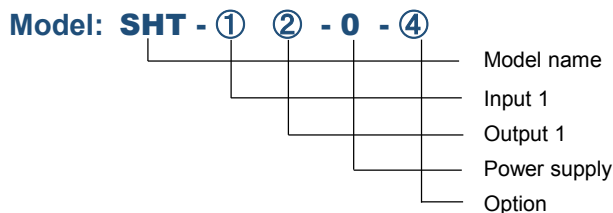
Thermocouple Transmitter (1-output)

Features:

SHT (1-input 1-output) converts thermocouple signal 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 and low limits



① INPUT 1 ※

Thermocouple	K0	K
	K1	
	K2	
	J0	J
	J1	
	J2	
	R	R
	S	S
	B	B
	E	E
	T0	T
	T1	
	N	N
	PL	PL-II
	W5	W5Re/W26Re
W3	W3Re/W25Re	

※ For the measurement range, refer to the next page.

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.

Power Supply

0 100 to 240V AC 50/60Hz

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 When input is 0°C or less: Base accuracy ±0.1% of each input span. When input has a decimal point: Base accuracy ±0.05% of each input span R, S input, -50 to 200°C (-58 to 392°F): ±0.3% of each input span, B input, 0 to 300°C (32 to 572°F): Accuracy is not guaranteed.
Temperature coefficient	±0.015%/°C (0 to 10mV output: ±0.02%/°C)
Cold junction compensation accuracy	±0.5°C (1.0°F) at 20±10°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	K, J, R, S, B, E, T, N, PL-II, W5Re/W26Re, W3Re/W25Re External resistance: 100Ω max. (However, B: 40Ω max.)		
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 and 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)		

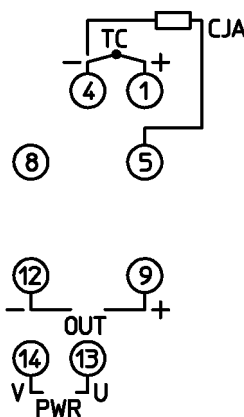
Measurement Range

Input Code	Measurement Range ※	
K0	-200 to 1370 °C	-328 to 2498 °F
K1	-200 to 200 °C	-328 to 392 °F
K2	0 to 400 °C	32 to 752 °F
J0	-200 to 1000°C	-328 to 1832 °F
J1	-200 to 200 °C	-328 to 392 °F
J2	0 to 400 °C	32 to 752 °F
R	-50 to 1760 °C	-58 to 3200 °F
S	-50 to 1760 °C	-58 to 3200 °F
B	0 to 1820 °C	32 to 3308 °F
E	-200 to 800 °C	-328 to 1472 °F
T0	-200 to 400 °C	-328 to 752 °F
T1	-100 to 100 °C	-148 to 212 °F
N	-200 to 1300°C	-328 to 2372 °F
PL	0 to 1390 °C	32 to 2534 °F
W5	0 to 2315 °C	32 to 4199 °F
W3	0 to 2315 °C	32 to 4199 °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
TC ① - ④	Thermocouple input
CJA ④ - ⑤	Cold junction compensation input



(8P Socket)

Circuit configuration

