

T/C TRANSMITTER

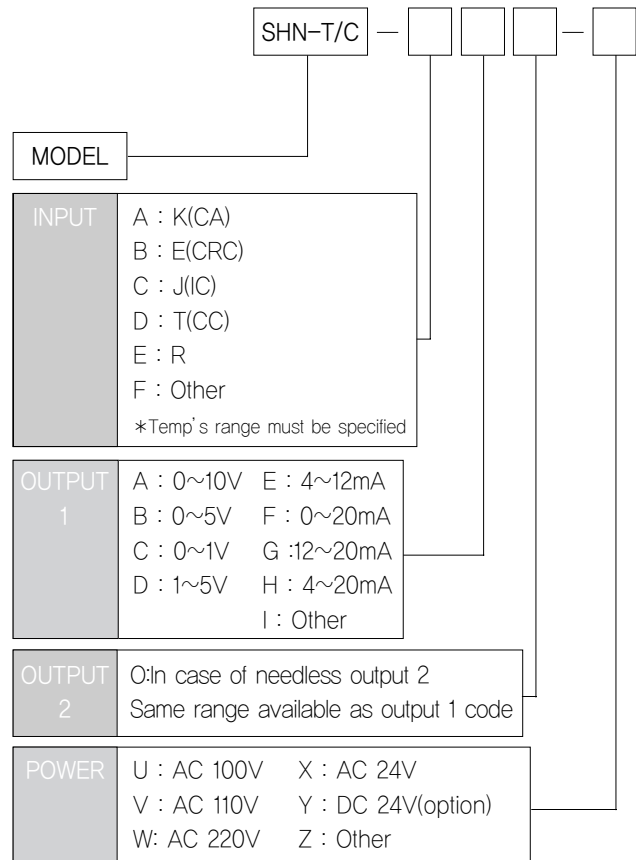
SHN-T/C



A converter is designed for converting the input signal that receives from T/C temperature sensor into isolated process signal.

- Long distance transmission between the T/C and the transmitter.
- Combination with intrinsic safety barriers.
- Contains linearizer circuit.
- 1 or 2 outputs are available from 1 input.
- Contains overvoltage protection circuit.
- Transformer isolation type.

MODEL & SUFFIX CODE SELECTION



GENERAL SPECIFICATIONS

Isolation/Type	Input to output to power/Transformer isolation type		
Power Supply	AC rating $\pm 10\%$, approx. 3.5VA		
Accuracy	DC rating $\pm 10\%$, (ripple 10%)100mA		
Temp Coefficient	$\pm 0.02\%$ / $^{\circ}\text{C}$ ($\pm 0.008\%$ / $^{\circ}\text{F}$)		
Linearity	$\pm 0.02\%$ F.S		
Insulation Resistance	Greater than 100M Ω with DC 500V		
Dielectric Strength	Input - Power	AC 2500V	1 minute
	Input - Output		
	Output 1 - Output 2		
	GND - Power		
Front Adjustments	Zero and Span $\pm 5\%$		
Overrange Output	approx. $-10\% \sim 110\%$ at DC 1~5V		
Response Time	≤ 0.5 sec (0~90%)		
Operating Temperature/Humidity	$-20 \sim 60^{\circ}\text{C}$ / 90%(N.C)		
Storage Temperature/Humidity	$-20 \sim 80^{\circ}\text{C}$ / 95%(N.C)		
Dimensions	8 pin: W50xH85xD122(mm) 11 pin: W50xH85xD133(mm)		
Case Material	ABS Resin (black)		
Weight	about 400g		
Mounting	Wall & Rail mounting		

INPUT & OUTPUT SPECIFICATIONS

Input Specification

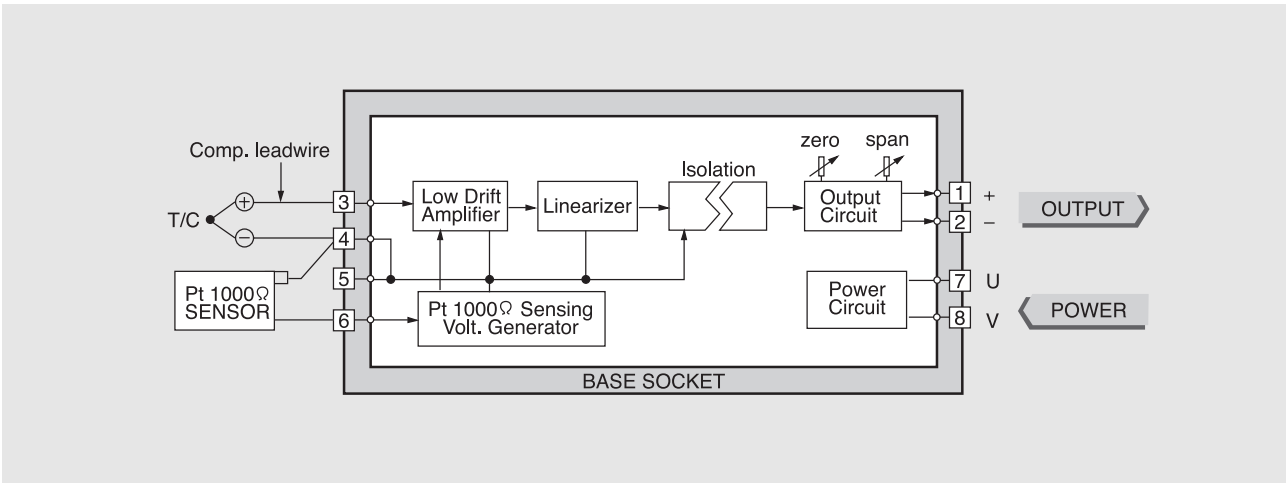
RTD	Usable Range		Min	SPAN
	°C	°F	°C	°F
K-Type	-200 to +1200	-328 to 2192	300	572
E-Type	0 to +700	32 to 1292	200	392
J-Type	-200 to +600	-328 to 1112	200	392
T-Type	-200 to +200	-328 to 392	50	122
R-Type	0 to +1700	32 to 1292	300	572

Output Load Resistance

Output	1 Point	2 Point		Remark
	Output	Output-1	Output-2	
4 ~ 20mA	700Ω	600Ω	350Ω	(Max)
0 ~ 20mA	700Ω	600Ω	350Ω	(Max)
2 ~ 10mA	1200Ω	1200Ω	700Ω	(Max)
1 ~ 5V	5000Ω	5000Ω	5000Ω	(Min)
0 ~ 1V	1000Ω	1000Ω	1000Ω	(Min)

BLOCK DIAGRAM

1 Point Output



2 Point Output

