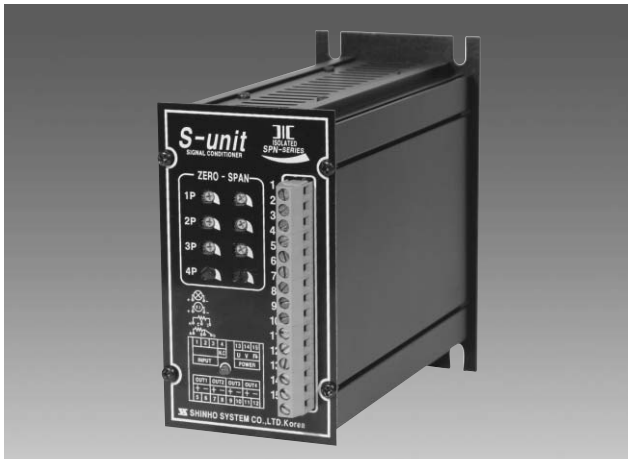
T/C TRANSMITTER

SPN-T/C



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

- Long distance transmission between the T/C and the transmitter.
- Combination with intrinsic safety barriers.
- Contains linearizer circuit.
- 3 or 4 outputs are available from 1 input.
- Contains overvoltage protection circuit.
- Transformer isolation type.

MODEL & SUFFIX CODE SELECTION

SPN-T/C — □ □ — □

MODEL

INPUT	A : K(CA) E : T(CC) B : E(CRC) F : R C : J(IC) G: Other Temp's range must be specified
OUTPUT	A:1~5V 3 Point B:1~5V 4 Point C:4~20mA 3 Point D:4~20mA 4 Point E:Other
POWER	U : AC 100V X : AC 24V V : AC 110V Y : DC 24V(option) W: AC 220V Z : Other

GENERAL SPECIFICATIONS

Isolation/Type	Input to output to power/Transformer isolation type		
Power Supply	AC rating ±10%, approx. 8VA DC rating ±10%, (ripple 10%)200mA		
Accuracy	±0.35%(Max)		
Temp Coefficient	±0.02% / ℃(±0.008%/℉)		
Linearity	±0.02% F.S		
Insulation Resistance	Greater than 100MΩ with DC 500V		
Dielectric Strength	Input – Power Input – Output Output 1 – Output 2 GND – Power	 AC 2500V AC 1000V	 1 minute
Front Adjustments	Zero and Span ±5%		
Overrange Output	approx.-10% ~ 110% at DC 1~5V		
Response Time	≦0.5 sec (0~90%)		
Operating Temperature/Humidity	-20~60℃ / 90%(N.C)		
Storage Temperature/Humidity	-20~80℃ / 95%(N.C)		
Dimensions	W81×H129×D138(mm)		
Case Material	Aluminum		
Weight	about 980g		
Mounting	Wall mounting		

INPUT & OUTPUT SPECIFICATIONS

Input Specification

T/C	Usable Range		Min	SPAN
	℃	℉	℃	℉
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	Out-1	Out-2	Out-3	Out-4	Remark
4 ~ 20mA	460Ω	460Ω	460Ω	460Ω	(Max)
0 ~ 20mA	460Ω	460Ω	460Ω	460Ω	(Max)
2 ~ 10mA	950Ω	950Ω	950Ω	950Ω	(Max)
1 ~ 5V	5000Ω	5000Ω	5000Ω	5000Ω	(Min)
0 ~1V	1000Ω	1000Ω	1000Ω	1000Ω	(Min)

BLOCK DIAGRAM