

RTD TRANSMITTER

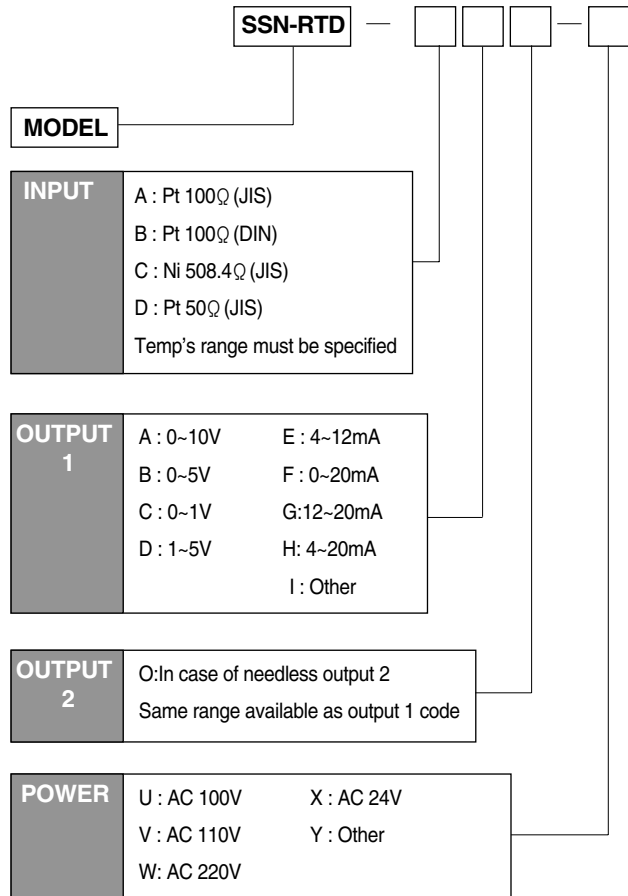
SSN-RTD



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

- Long distance transmission between the RTD 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 ±10%, approx 3,5VA		
Accuracy	±0,25%(Max)		
Temp Coefficient	±0,015% / °C(±0,008%/°F)		
Linearity	±0,02% F.S		
Insulation Resistance	Greater than 100MΩ with DC 500V		
Dielectric Strength	Input — Power	AC 2500V	1 minute
	Input — Output		
	Output 1 — Output 2		
	GND — Power		
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°C / 90%(N.C)		
Storage Temperature/Humidity	-20°C~80°C / 95%(N.C)		
Dimensions	W40×H129×D138(mm)		
Case Material	Aluminum		
Weight	about 400g		
Mounting	Wall mounting		

INPUT & OUTPUT SPECIFICATIONS

Input Specification

- (1)Sensing current:DC 2mA
- (2)Temperature range(°C)

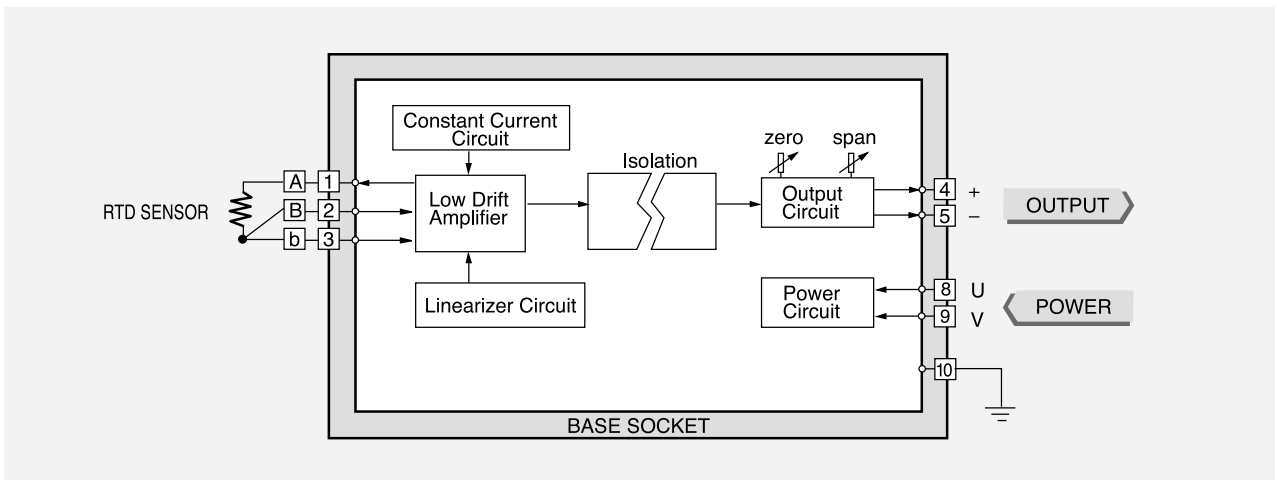
RTD	Usable Range		Min	SPAN
	°C	°F		
Pt100Ω /JIS	-200 to+650	-328 to+1202	50	122
Pt100Ω /DIN	-200 to+650	-328 to+1202	50	122
Pt 50Ω	-200 to+500	-328 to+ 932	100	212
Ni508.4Ω	- 50 to+200	- 58 to+ 392	50	122

Output Load Resistance

Output	1 Point	2Point		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

