RTD TRANSMITTER

P-RTD

A converter designed for converter the input signal that receives from RTD temperture 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
- Transforomer isolation type
- Slim wide 18mm

MODEL & SUFFIX CODE SELECTION

P-RTD — □ □ □ □

MODEL	
INPUT	A: Pt100Ω(JIS) B: Pt100Ω(DIN) C: Ni508.4Ω D : Other
OUTPUT 1	A:1~5V B:4~20mA C:Other
OUTPUT 2	A:1~5V B:4~20mA C:Other
POWER	Y : DC 24V

GENERAL SPECIFICATIONS

Isolation/Type	Input to output to power/Transformer isolation type
Power Supply	DC24V ±2V, (ripple 10%) 100mA(full load)
Accuracy	±0.15%(Max)
Temp Coefficient	±0.015%/℃
Linearity	±0.02% F.S
Insulation Resistance	Greater than 100MΩ with DC 500V
Front Adjustments	Zero and Span ±5%
Overrange Output	approx.-10% ~ 110% at DC 1~5V
Response Time	≤0.2 sec (0~90%)
Operating Temperature/Humidity	0~60℃ / 90%(N.C)
Storage Temperature/Humidity	-20~80℃ / 95%(N.C)
Dimensions	W18xH100xD112(mm)
Case Material	ABS Resin (black)
Weight	about 200g
Mounting	Rail mounting Type

INPUT & OUTPUT SPECIFICATIONS

Input Impedance

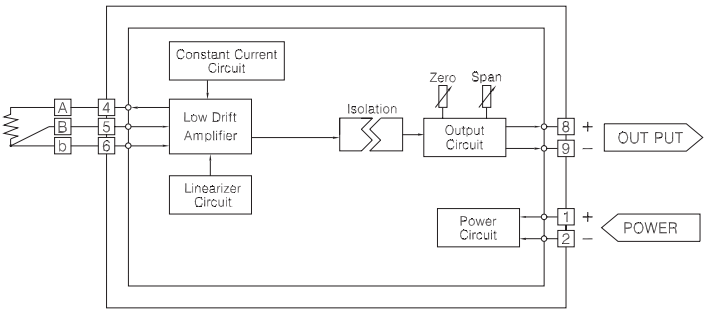
RTD	Usable Range	Min SPAN
	℃	℃
Pt100Ω /JIS	-200 to+650	50
Pt100Ω /DIN	-200 to+650	50
Pt 50Ω	-200 to+500	100
Ni508.4Ω	- 50 to+200	50

Output Load Resistance

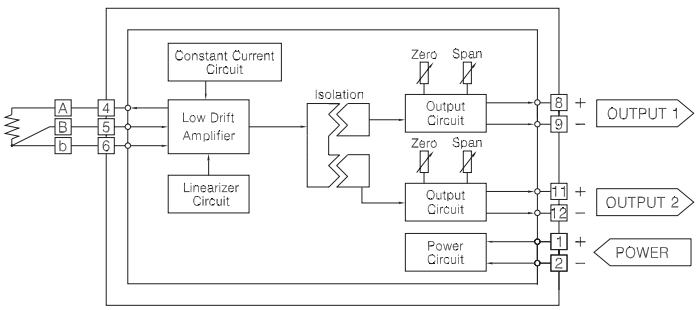
Output	1 Point	2 Point		Remark
	Output	Output-1	Output-2	
4 ~ 20mA	700Ω	600Ω	350Ω	(Max)
0 ~ 20mA	700Ω	600Ω	350Ω	(Max)
2 ~ 10mA	1200Ω	1200Ω	700Ω	(Max)
1 ~ 5V	5000Ω	5000Ω	5000Ω	(Min)
0 ~1V	1000Ω	1000Ω	1000Ω	(Min)

BLOCK DIAGRAM

1 Point Output



2 Point Output



DIMENSIONS (unit:mm)