

# RTD TRANSMITTER

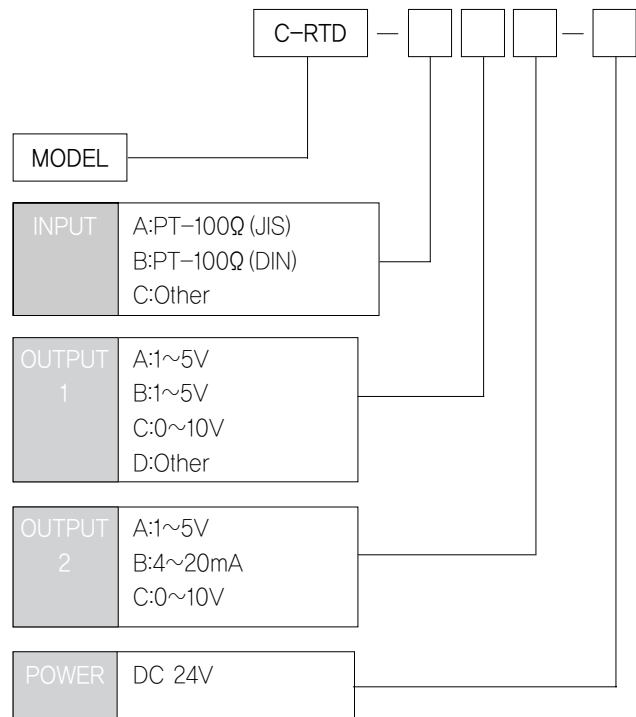
C-RTD



A Converter is designed for converting the input signal that receives from RTD transmitter 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	Input to output to power/Transformer isolation
Power Supply	24VDC ±10%, (ripple 10% max)80mA
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
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	-20~80°C / 95%(N.C)
Dimensions	W18xH50xD77.5(mm)
Case Material	ABS Resin (black)
Weight	75g
Mounting	Screw type

### INPUT & OUTPUT SPECIFICATIONS

#### Input Impedance

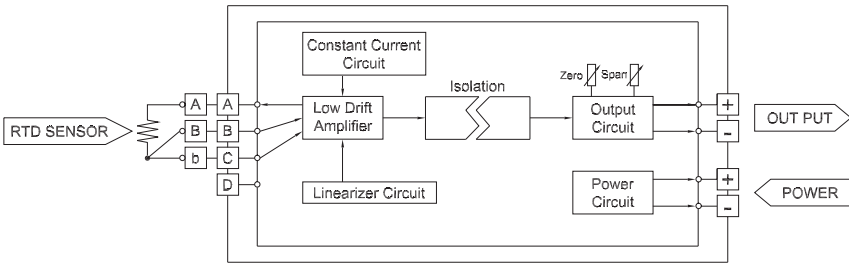
RTD	Usable Range		Min	SPAN
	°C	°F	°C	°F
Pt100Ω /JIS	-200 to+650	-328 to+1202	50	122
Pt100Ω /DIN	-200 to+650	-328 to+1202	50	122

#### Output Load Resistance

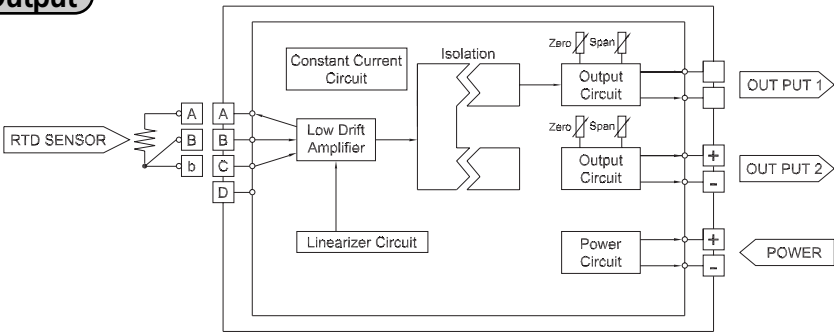
Output	1 Point	2 Point		Remark
	Output	Output-1	Output-2	
4 ~ 20mA	700Ω	600Ω	350Ω	(Max)
0 ~ 20mA	700Ω	600Ω	350Ω	(Max)
2 ~ 10mA	1200Ω	1200Ω	700Ω	(Max)
1 ~ 5V	5000Ω	5000Ω	5000Ω	(Min)
0 ~1V	1000Ω	1000Ω	1000Ω	(Min)

### BLOCK DIAGRAM

#### 1 Point Output



#### 2 Point Output



### Dimensions (unit: mm)

