T/C TRANSMITTER

C-T/C

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

- Long distance 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

C-T/C — □ □ □ — □

MODEL	
INPUT	A: K(CA) B: E(CRC) C: J(JI) D: T(CC) E: R F: Other
OUTPUT 1	A:1~5V B:1~5V C:0~10V D:Other
OUTPUT 2	A:1~5V B:4~20mA C:0~10V
POWER	DC 24V

GENERAL SPECIFICATIONS

Isolation	Input to output to power/Transformer isolation
Power Supply	24VDC ±10%, (ripple 10% max)80mA
Accuracy	±0.35%(Max)
Temp Coefficient	±0.015% / ℃(±0.008%/℉)
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℃ / 90%(N.C)
Storage Temperature/Humidity	-20~80℃ / 95%(N.C)
Dimensions	W18xH50xD77.5(mm)
Case Material	ABS Resin (blue)
Weight	75g
Mounting	Screw type

INPUT & OUTPUT SPECIFICATIONS

Input Impedance

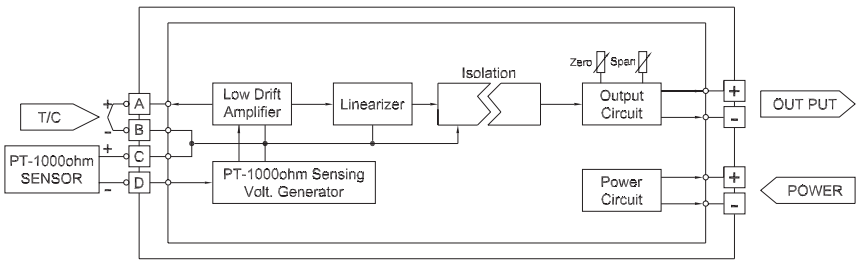
RTD	Usable Range		Min	SPAN
	℃	℉	℃	℉
K–TYPE	–200 to+1200	–328 to+2192	300	572
E–TYPE	–0 to+700	–32 to+1292	200	392
J–TYPE	–200 to+600	–328 to+ 1112	200	392
T–TYPE	– 50 to+200	–328 to+ 392	50	122
R–TYPE	– 0 to+1700	+ 32 to+ 1292	300	572

Output Load Resistance

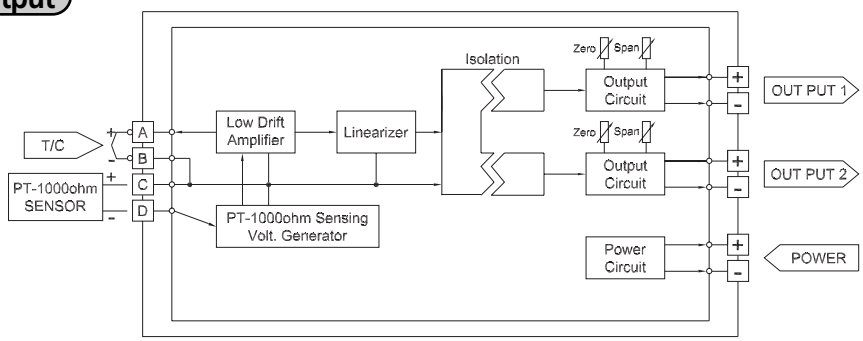
Output	1 Point	2 Point		Remark
	Output	Output–1	Output–2	
4 ~ 20mA	700Ω	600Ω	350Ω	(Max)
0 ~ 20mA	700Ω	600Ω	350Ω	(Max)
2 ~ 10mA	1200Ω	1200Ω	700Ω	(Max)
1 ~ 5V	5000Ω	5000Ω	5000Ω	(Min)
0 ~1V	1000Ω	1000Ω	1000Ω	(Min)

BLOCK DIAGRAM

1 Point Output



2 Point Output



Dimensions (unit: mm)