

# SHICO. THERMOCOUPLE CONVERTER

MODEL : STC Series

The thermocouple converter model STC accepts standard thermocouples and provides an isolated, linearized DC output



## ■ SPECIFICATION

ITEM	SPECIFICATIONS
Input	Thermocouple (K, J, E, T, B, R S)
Output	DC Voltage or DC Current signal
Accuracy	±0.2% of F.S
Linearity	±0.1% of F.S
Repeatibility	±0.1% of F.S
Response Time	Less than 0.5sec(0~90%)
Insulation Resistance	Greater than 100MΩ (DC500V)
Dielectric Strength	Input-Power AC1000V Input-Output AC1000V (1 min) Input-GND AC1000V
Ambient Temperature	-5~+60℃
Humidity	Less than 90% RH

## ■ GENERAL SPECIFICATIONS

- Construction : Plug-In
- Housing Material : ABS plastic(Black)
- Adjustments : Zero and Span ±5%

## ■ INSTALLATION

- DC : 24V ±10%, 100mA(Ripple 10% p-p max)
- AC : Rating (100~240V) ±10%, 50/60Hz 4VA

## ■ INPUT SIGNAL SPECIFICATIONS

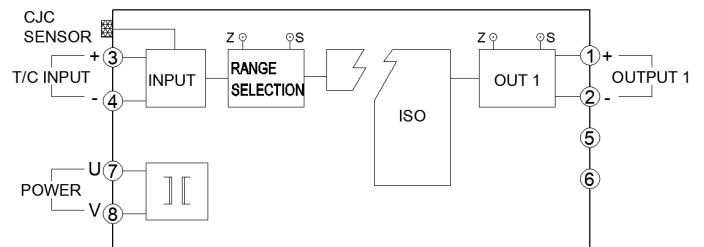
- Range : -200~1750℃
- Input Impedance : 1MΩ or more
- Burnout sensing : 0.1μA
- Coldjunctions Temp Range : 0~60℃

## ■ OUTPUT SIGNAL SPECIFICATIONS

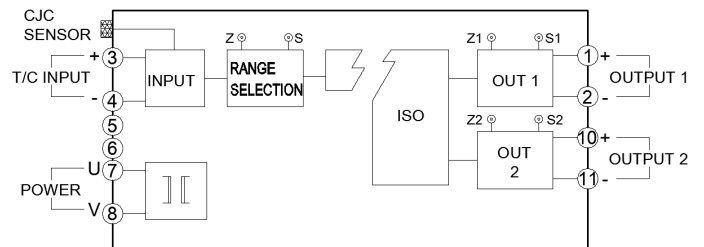
- Output voltage : 12V DC max
- Output Current : 30mA DC max

## ■ BLOCK DIAGRAM & CONNECTIONS

- Single Loop



- Double Loop



## ■ DC Voltage

Output	Load Resistance	Impedance
0-10mV	10kΩ or more	10Ω or less
0-100mV	100kΩ or more	100Ω or less
0-1V	1kΩ or more	1Ω or less
0-10V	10kΩ or more	
0-5V	5kΩ or more	
1-5V		

## •DC Current

Output	Load Resistance	Impedance
4-20mA	0-600Ω	5MΩ or more
2-10mA	0-1200Ω	
1-5mA	0-2400Ω	
0-20mA	0-600Ω	
0-10mA	0-1200Ω	
0-1mA	0-12kΩ	



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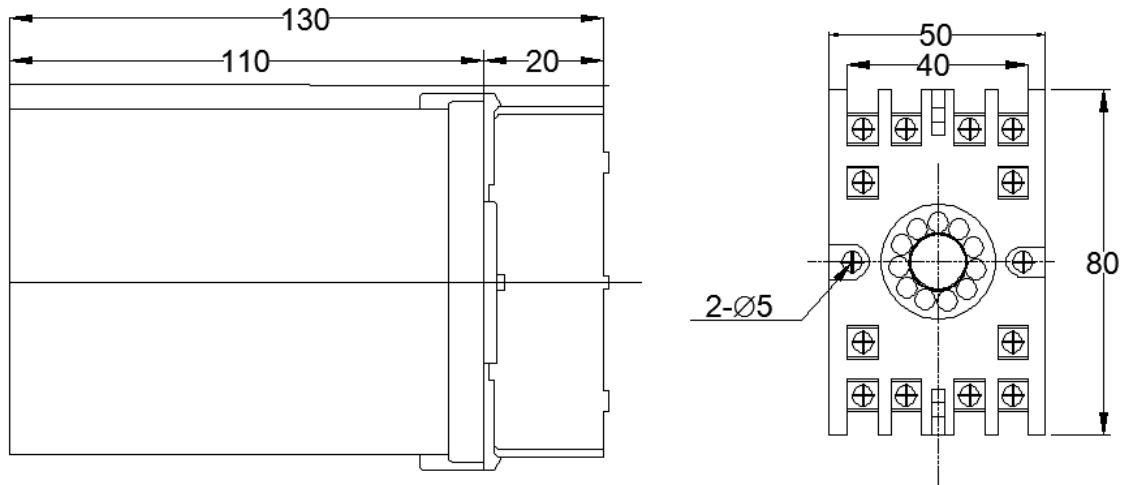
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# SHICO. THERMOCOUPLE CONVERTER

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## ■ DIMENSION



## ■ ORDERING INFORMATION

CODE	INPUT SIGNAL
1	R(PR)
2	K(CA)
3	J(IC)
4	E(CRC)
5	T(CC)
6	B
7	S
0	Other Thermocouple

CODE	OUTPUT SIGNAL
1	DC 0~10mV
2	DC 0~100mV
3	DC 0~1V
4	DC 0~5V
5	DC 0~10V
6	DC 1~5V
A	DC 4~20mA
B	DC 2~10mA
C	DC 1~5mA
D	DC 0~20mA
E	DC 0~10mA
F	DC 0~1mA
O	Other

CODE	POWER SUPPLY
1	AC 110V
2	AC 220V
3	DC 24V(Option)

STC -  -  -



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