

HD-TCI

converter the input signal that accept from Thermocouple sensor into isolated DC signal and display the present value to various forms.



GENERAL SPECIFICATION

Construction : Plug-In
 Wiring : M3.5 Screw Terminals
 Housing : Plastic(Black)
 Isolation : Power to Input to Output 1 to Output 2
 Front Adjustment : Zero and Span $\pm 15\%$

DISPLAY

Accuracy : ± 0.1 digit
 Display : FND 7Segment 3½ digit
 Range : Temperature

INPUT

Input : THERMOCOUPLE
 Impedance : $30K\Omega$
 Minimum Span : 3mV
 Cold junction Temp' rang : $0 \sim 50^{\circ}C$

OUTPUT

DC VOLTAGE : $\pm 12V$ Max
 Load Resistance : Output drive 1mA Max. AT $\geq 0.5V$

output	Load Resistance
0 ~ 10mV	10 Ω Min
0 ~ 100mV	100 Ω Min
0 ~ 1V	1K Ω Min
0 ~ 5V	5K Ω Min
0 ~ 10V	10K Ω Min
-10 ~ 10V	10K Ω Min
1 ~ 5V	5K Ω Min

DC CURRENT : $0 \sim 20mA$

Load Resistance : Output drive 15V Max

output	Load Resistance
0 ~ 1mA	15K Ω Max
0 ~ 10mA	1.5K Ω Max
0 ~ 20mA	750 Ω Max
1 ~ 5mA	3K Ω Max
4 ~ 20mA	750 Ω Max

INSTALLATION

Operating Temperature : $-10 \sim 65^{\circ}C$
 Operating Humidity : 90% RH Max(non-condensing)
 Mounting : Wall or DIN rail
 Power Unit

- AC : Rating $\pm 10\%$, approx. 3VA

- DC : Rating $\pm 10\%$ (ripple 10% p-p Max), approx.2w

PERFORMANCE

Accuracy : $\pm 0.2\%$ FS
 Temp. coefficient : $\pm 0.02\%/^{\circ}C$
 Response time : $\leq 0.4sec(0 \sim 90\%)$
 Insulation resistance : $\geq 100M\Omega$ with 500VDC
 Dielectric strength : 2000VAC @ 1minute
 (Input to Output to Power to Ground)

ORDERING CODE SELECTION

MODEL : HD-TCI

PIN CONNECTION

A : 8 PIN B : 11 PIN

INPUT

- 1 : K(ICA)
- 2 : J(IC)
- 3 : R
- 4 : T(CC)
- 5 : E(CRC)
- 0 : Other Spec

OUTPUT 1

VOLTAGE	CURRENT
1: 0 ~ 10mV DC	A: 0 ~ 1mA DC
2: 0 ~ 100mV DC	B: 0 ~ 10mA DC
3: 0 ~ 1V DC	C: 0 ~ 20mA DC
4: 0 ~ 5V DC	D: 1 ~ 5mA DC
5: 0 ~ 10V DC	E: 4 ~ 20mA DC
6: -10 ~ 10V DC	S: Other Current
7: 1 ~ 5V DC	
0: Other Voltage	

OUTPUT 2

S : Same Range availability as OUTPUT 1
 N : None

POWER

X : AC110V/60Hz, AC220V/60Hz

AC110V/220V S/W is located in the back plane

Z : DC 24V S : Other Power

DISPLAY

- 1 : Percent(%) 2 : Input Signal
- 3 : Output Signal 4 : Other Range

CONNECTION DIAGRAM

