Terminal Type Thermocouple Transducer (AC Power)

MODEL TZ-1CA

NEW!

■ Features

- AC power supply 90 VAC to 240 VAC
- DIN rail mounting
- Input/Output/Power supply isolated

■ Ordering Code

TZ-1CA-□□□

Output code
- 0: 0 to 5VDC 1: 1 to 5VDC
- 2: 0 to 10VDC 3: -10 to 10VDC
- 4: -2 to 2VDC
- 5: -2.5 to 2.5VDC
- 6: -5 to 5VDC 7: 0 to 4VDC
- A: 4 to 20mADC
- B: 0 to 20mADC
- Y: Special

Input code
- J0 : 0 to 1000ºC JY : Special
- K2 : -50 to 200ºC K3 : 0 to 200ºC
- K4 : -50 to 1200ºC K5 : 0 to 1200ºC
- KY : Special Input code
- R0 : 0 to 1700ºC RY : Special
- S0 : 0 to 1700ºC SY : Special
- T0 : -50 to 350ºC T1 : 0 to 350ºC
- TY : Special

(Example) TZ-1CA - K3A

■ Input Specification

Code No.	Thermo couple	Input signal	For code No.Y	Input resistance	Input allowable range
J0	J	0 to 1000ºC	-50 to 1000ºC span 200 to 1050ºC	More than 1MΩ	±150%
JY		Other than the above			
K2	K	-50 to 200ºC	-50 to 1200ºC span 200 to 1250ºC		
K3		0 to 200ºC			
K4		-50 to 1200ºC			
K5		0 to 1200ºC			
KY		Other than the above			
R0	R	0 to 1700ºC	0 to 1700ºC span 400 to 1700ºC		
RY		Other than the above			
S0	S	0 to 1700ºC	0 to 1700ºC span 500 to 1700ºC		
SY		Other than the above			
T0	T	-50 to 350ºC	-50 to 350ºC span 200 to 400ºC		
T1		0 to 350ºC			
TY		Other than the above			

■ Output Specification

Code No.	Output signal	Allowable Loadresistance
0	0 to 5VDC	More than 2kΩ
1	1 to 5VDC	
2	0 to 10VDC	More than 4kΩ Negative output:more than 10kΩ
3	-10 to 10VDC	
4	-2 to 2VDC	More than 2kΩ Negative output:more than 10kΩ
5	-2.5 to 2.5VDC	
6	-5 to 5VDC	
7	0 to 4VDC	More than 2kΩ
A	4 to 20mADC	Less than 550Ω
B	0 to 20mADC	
Y	Other than the above	

For code No. Y

Limit of specifications

Voltage output : Less than +15 VDC and more than -12 VDC

Minimum span : Less than +27 VDC and more than 0.06 VDC

(Road resistance : 10kΩ at the output exceeding 10V, and a negative output)

(Base accuracy : ±0.15 %F.S and temperature characteristic : ±0.03 %F.S/ºC for a span of less than 1V)

Current output : Less than +20 mADC and more than 0 mADC

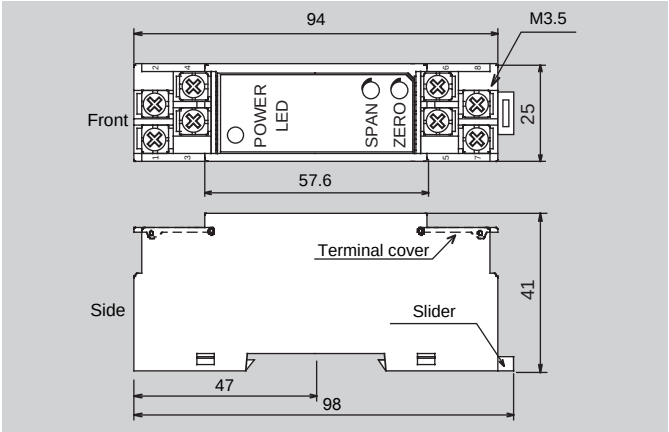
Minimum span : Less than +20 mADC and more than 1 mADC

Outputs can be reversed for both voltage and current outputs.

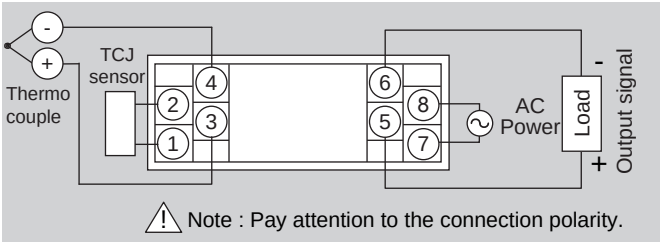
■ General Specifications

Base Accuracy : ±0.2 %F.S (25 ±2ºC)
Power supply variation : ±0.06 %F.S
Load resistance variation : ±0.06 %F.S
Temperature characteristic : ±0.02 %F.S/ºC
Accuracy of cold junction compensation : ±1ºC (10 to 30ºC)
Disconnection detection : Upside (.135±15%F.S)
Response time : 500msec (0→90%)
Front adjustments : ±5% for zero and span
Insulation resistance : Between input and output/power supply ; More than 100MΩ at 500 VDC
Dielectric strength : Between input and output/power supply ; For 1 min. at 2000VAC
Power supply voltage : 100 to 240VAC ±10 %
Consuming current : Less than 35 mA (At current output 100VAC) Less than 30 mA (At voltage output 100VAC)
Vibration resistance : Frequency : 10 to 55Hz ; ampliutde (half) : 0.15mm to 10 sweeps of 5min each in X,Y and Z directions
Operating ambient temperature : -5 to 50ºC
Operating ambient humidity : Less than 90 %RH (No-condensing)
Storage temperature : -10 to 70ºC
Storage humidity : Less than 60%RH (No-condensing)
Case material : ABS resin (Black) 94V-2
Weight : Approx. 80g

■ Dimensions



■ Connection Diagram



■ Block Diagram