

# TEMPERATURE ( RTD, T/C ) TRANSMITTER

CSP-T

## FEATURE

- Accuracy: RTD: 0.1%, T/C: 0.2%
- Wide selection of input / output range
- Dimension small
- Low output ripple
- Dielectric strength 2000 VAC
- High stability & low cost

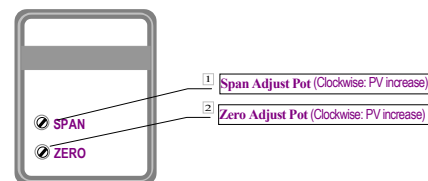


## SPECIFICATION

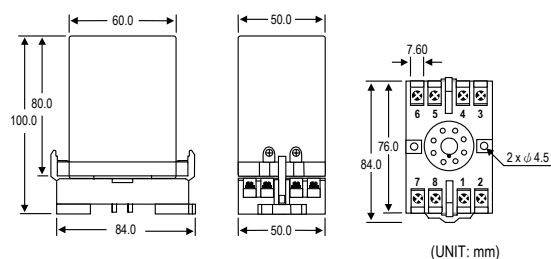
| Input Range             | Input Impedance | Output Range                | Load Resistance         |
|-------------------------|-----------------|-----------------------------|-------------------------|
| Type K<br>0 ~ 1200°C    | ≥ 1M ohm        | 0 ~ 100 mV<br>0 ~ 1 V       | ≥ 100K ohm<br>≥ 50 ohm  |
| Type J<br>0 ~ 1000°C    | ≥ 1M ohm        | 0 ~ 5 V<br>0 ~ 10 V         | ≥ 250 ohm<br>≥ 500ohm   |
| Type E<br>0 ~ 800°C     | ≥ 1M ohm        | 1 ~ 5 V<br>2 ~ 10 V         | ≥ 250 ohm<br>≥ 500ohm   |
| Type T<br>-50 ~ 400°C   | ≥ 1M ohm        | -10 ~ 0 ~ +10 V<br>0 ~ 1 mA | ≥ 1K ohm<br>≤ 15K ohm   |
| Type R<br>400 ~ 1600°C  | ≥ 1M ohm        | 0 ~ 10 mA<br>0 ~ 20 mA      | ≤ 1500 ohm<br>≤ 750 ohm |
| Type S<br>400 ~ 1600°C  | ≥ 1M ohm        | 4 ~ 20 mA                   | ≤ 750ohm                |
| Pt100 Ω<br>-100 ~ 800°C | ≥ 10M ohm       |                             |                         |

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Accuracy:                    | RTD (Pt100): ±0.1% of R.O.<br>T/C (K, J, E, T, R, S): ±0.2% of R.O.        |
| Response time:               | ≤ 400 msec.                                                                |
| Span adjustment::            | ≤ 10% of R.O.                                                              |
| Zero adjustment::            | ≤ 5% of R.O.                                                               |
| Output ripple:               | ≤ 0.1% of R.O.                                                             |
| Power Supply:                | AC 115 or 230V ±10%, 50/60 Hz<br>Option: DC 12V, 24V, 48V ±10%, (Isolated) |
| Power consumption:           | DC 3W, AC 4.5VA                                                            |
| Operating temperature:       | 0~60 °C                                                                    |
| Operating relative humidity: | 20~95 %RH                                                                  |
| Temperature coefficient:     | ≤ 100 PPM/°C                                                               |
| Cold junction                | 25±10°C, error ≤ 0.5°C                                                     |
| Storage temperature:         | -10~70 °C                                                                  |
| Isolation:                   | Between Power / Input / Output                                             |
| Insulation resistance:       | ≥ 100M ohm at 500Vdc                                                       |
| Surge test:                  | 4 KV, 1.2 x 50 μ sec.<br>Common mode & differential mode                   |
| Dielectric Strength:         | AC 2.0 KV for 1 min<br>Between Power / Input / Output / Case               |
| Weight:                      | 360g                                                                       |

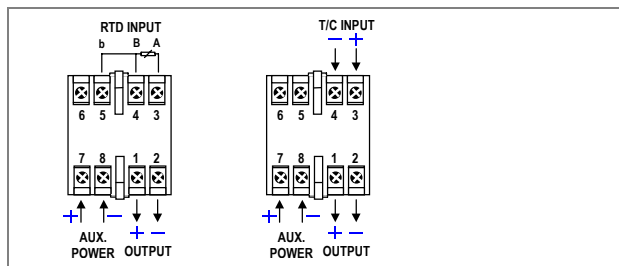
## ADJUSTMENT



## DIMENSIONS



## CONNECTION DIAGRAM



## ORDER INFORMATION

CSP-T-

Input Type

Input Range

Output Range

Aux. Power

RTD

THERMOCOUPLE

CODE

TEMPERATURE RANGE

|   |   |   |   |   |   |   |      |                   |
|---|---|---|---|---|---|---|------|-------------------|
| P | K | J | E | T | R | S | CODE | TEMPERATURE RANGE |
| ● |   |   |   | ● |   |   | A    | -50 ~+100℃        |
| ● |   |   |   | ● |   |   | B    | 0 ~ 50℃           |
| ● | ● | ● | ● | ● |   |   | C    | 0 ~ 100℃          |
| ● | ● | ● | ● | ● |   |   | D    | 0 ~ 200℃          |
| ● | ● | ● | ● | ● |   |   | E    | 0 ~ 400℃          |
| ● | ● | ● | ● | ● |   |   | F    | 0 ~ 500℃          |
| ● | ● | ● | ● | ● |   |   | G    | 0 ~ 600℃          |
| ● | ● | ● | ● | ● |   |   | H    | 0 ~ 800℃          |
| ● | ● | ● | ● | ● |   |   | I    | 0 ~ 1000℃         |
|   | ● |   |   |   |   |   | J    | 0 ~ 1200℃         |
|   |   | ● |   |   |   |   | K    | 400 ~ 1600℃       |
|   |   |   |   |   | ● | ● | O    | Specify           |

Current

Voltage

Aux. Power

CODE

OUTPUT

CODE

OUTPUT

|   |           |   |             |
|---|-----------|---|-------------|
| A | 0 ~ 1 mA  | 1 | 0 ~ 100 mV  |
| B | 0 ~ 10 mA | 2 | 0 ~ 1 V     |
| C | 0 ~ 20 mA | 3 | 0 ~ 5 V     |
| D | 4 ~ 20 mA | 4 | 0 ~ 10 V    |
| O | Specify   | 5 | 1 ~ 5 V     |
|   |           | 6 | 2 ~ 10 V    |
|   |           | 7 | -10 ~ +10 V |
|   |           | O | Specify     |

CODE

AUX. POWER

|     |          |
|-----|----------|
| A1  | AC 115 V |
| A2  | AC 230 V |
| D12 | DC 12 V  |
| D24 | DC 24 V  |
| D48 | DC 48 V  |
| O   | Specify  |