

The Model RTD accepts 2- or 3-wire RTD inputs and provides isolated and linearized DC outputs.  
 - Linearization and upscale burnout protection standard; downscale or no burnout optional.

**ORDERING INFORMATION**

- Specify code number and variables. Burnout is set to up-scale.  
 Specify when downscale or no burnout protection is required
- Code no. : RTD-Model/Input/Output1/Output2-Power  
 (Ex : RTD-4C8N-X)
  - Temperature Range (e.g. 0~100 C)°
  - Special Output Range (Ex. 0~20mA)

**GENERAL SPECIFICATIONS**

- Housing Material : Plastic ABS(Resin) Black
- Isolation : Input to Output to Power
- Adjustment : Zero & Span(Separation)  $\pm 10\%$  of F.S
- Burnout Protection : Upscale standard (Downscale option)
- Display : 3 digits



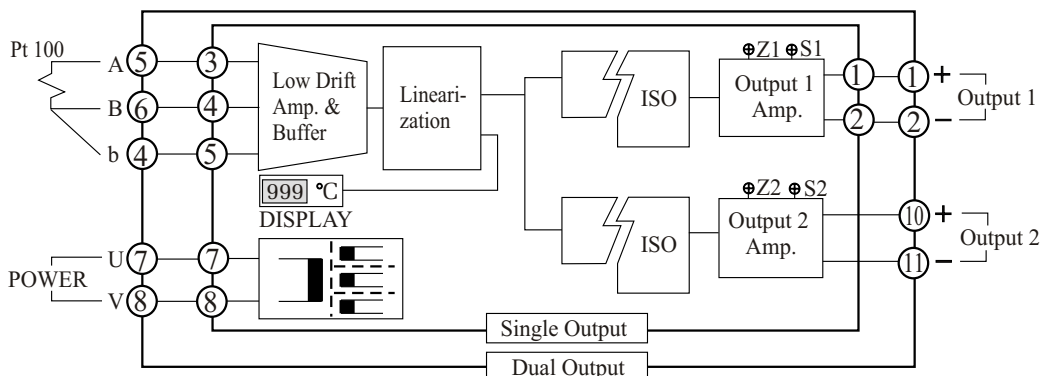
**INSTALLATION**

- Power Supply : AC 100~120V or 200~230V / 60Hz (about 3VA), DC 18~30V (about 3Watts)
- Operating Temperature : -5 ~ +55 °C
- Operating Humidity : 90% RH max. (Non-condensing)
- Mounting : Wall or Rail mounting (Plug-in Type)
- Dimension : 52(W) X 77(H) X 112(D) (Unit : mm)
- Weight : about 400g

**PERFORMANCE**

- Accuracy :  $\pm 0.1\%$  LESS(F.S) at 23 °C
- Temperature Coefficient :  $\pm 0.015\%$  / °C
- Response Time : 0.5 Sec or less (0~90%), Normal
- Insulation Resistance : 100 M or more with 500V DC between Input / Output / Power
- Dielectric Strength : 1500V AC 0.5 mA/Min (Input to Output to Power)
- Display Range : -99 to 999 (Available Decimal Point, Unit : °C)
- Input Sensing : 2mA DC (Pt 100 RTD Sensor)

**SCHEMATIC CIRCUIT & CONNECTION DIAGRAM**



# Isolated RTD / DC

## MODEL & SUFFIX CODE

RTD-□□□□-□

### Model Type Selection

- 2 : 1 Output with Display
- 4 : 1 Output without Display
- 7 : 2 Outputs with Display
- 9 : 2 Outputs without Display

### Input Type & Range Selection

- |                                |                              |
|--------------------------------|------------------------------|
| A : -50 ~ +50 °C for JIS spec. | B : 0 ~ 50 °C for JIS spec.  |
| C : 0 ~ 100 °C for JIS spec.   | D : 0 ~ 200 °C for JIS spec. |
| E : 0 ~ 300 °C for JIS spec.   | F : 0 ~ 400 °C for JIS spec. |
| G : -50 ~ +50 °C for DIN spec. | H : 0 ~ 50 °C for Din spec.  |
| I : 0 ~ 100 °C for DIN spec.   | J : 0 ~ 200 °C for DIN spec. |
| K : 0 ~ 300 °C for DIN spec.   | L : 0 ~ 400 °C for DIN spec. |
| R : Other Special Spec.        |                              |

### Output Type & Range Selection (Available for Output 1 & Output 2)

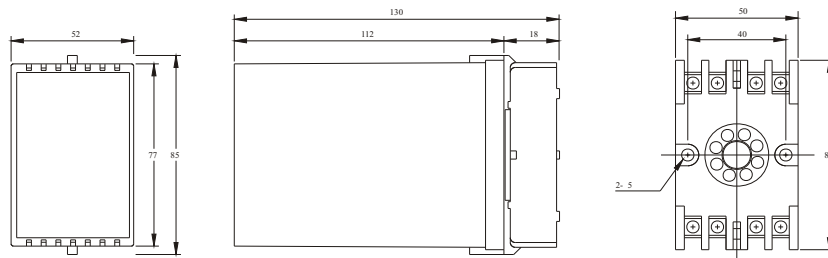
- 1 : DC 0~10mV (Load Resistance : 10 K $\Omega$  or more)
- 2 : DC 0~100mV (Load Resistance : 100 K $\Omega$  or more)
- 3 : DC 0~5V (Load Resistance : 5 K $\Omega$  or more)
- 4 : DC 0~10V (Load Resistance : 10 K $\Omega$  or more)
- 5 : DC 1~5V (Load Resistance : 5 K $\Omega$  or more)
- 6 : DC 0~1mA (Load Resistance : 0~15 K $\Omega$ )
- 7 : DC 0~20mA (Load Resistance : 0~750 $\Omega$ )
- 8 : DC 4~20mA (Load Resistance : 0~750 $\Omega$ )
- R : Other Special Spec.
- N : Not Used

### Power Supply

- W : AC 200~230V for 60 Hz
- X : AC 100~120V for 60 Hz
- Y : DC 18~30V
- Z : Other Special Spec.

## DIMENSION

( 1 Output )



( 2 Output )

