

Isolated RTD Sensor Transmitter

MT-RST

The Model MT-RST accepts 2- or 3-wire RTD input, and provides isolated and linearized DC outputs.

- Linearization and up-scale burnout protection standard; down-scale or no burnout optional.

♣ Performance

- Accuracy : $\pm 0.2\%$ of Full Scale
- Temp. Coefficient : $\pm 0.015\%$ / $^{\circ}\text{C}$
- Response Time : 0.5Sec or less(0~90%), Normal
- Insulation Resistance : 100M Ω or more
with 500V DC(Input to Output to Power)
- Dielectric Strength : 1500V AC 0.5mA/Min.
(Input to Output to Power)
- Display Range : -99 to 999 (Available Decimal Point)
- Unit : $^{\circ}\text{C}$
- Input Sensing : 2mA DC(Pt 100 Ω RTD Sensor)

♣ General Specifications

- Housing Material : Plastic ABS(Resin), Black
- Isolation : Input to Output to Power
- Adjustment : Zero & Span $\pm 20\%$ of Full Scale (Separated)
- Burnout Protection : Up-scale standard (Down-scale optional)
- Display : 3 Digits (available Decimal Point)



♣ Installation

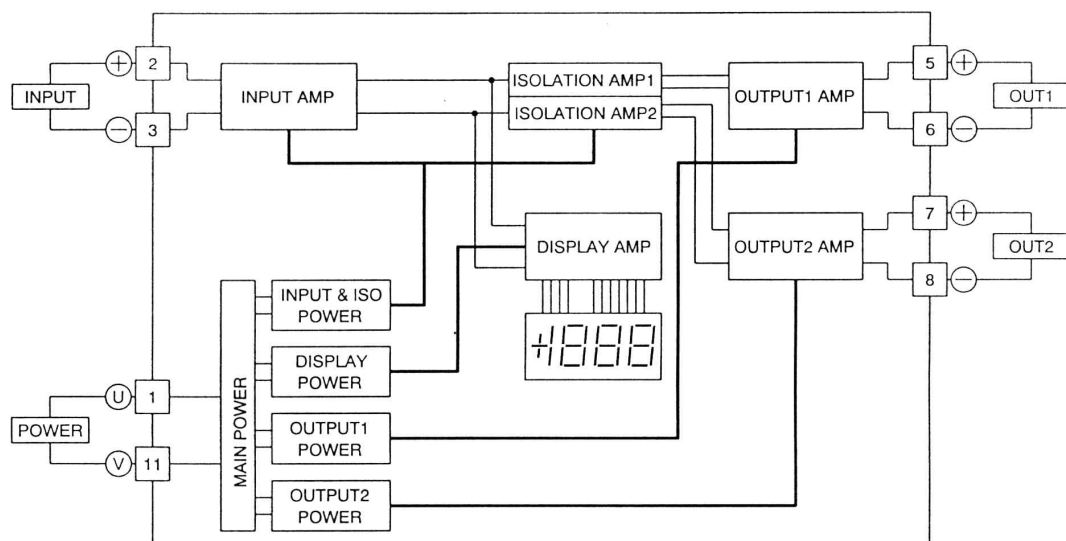
- Power Supply : AC 110V or 220V/60Hz(3VA), DC 18~30V (about 3Watts)
- Operating Temperature : 0~50 $^{\circ}\text{C}$
- Operating Humidity : 90% RH Max. (Non-Condensing)
- Mounting : Wall or Rail Mounting (Plug-in type)
- Dimension : 51(W) X 83(H) X 102(D) (Unit : mm)
- Weight : about 400g

♣ Ordering Information

Specify Code number and Variables

- Code No. : MT-RST-Model/Input/Output1/Output2-Power (Ex : MT-RST-438N-X)
- Specify Input Range (Ex : 0~100 $^{\circ}\text{C}$)
- Special Output Range (Ex : 0~15mA)

♣ Schematic Diagram



♣ Model & Suffix Code

MT-RST-□□□□-□

Model Type Selection

- | | |
|------------------------------|-------------------------------|
| 1 : 1 Output without Display | 2 : 2 Outputs without Display |
| 3 : 1 Output with Display | 4 : 2 Output with Display |

Input Type & Range Selection

- | | |
|----------------------------|--------------------------|
| 1 : -50~+50℃ for JIS spec. | 2 : 0~50℃ for JIS spec. |
| 3 : 0~100℃ for JIS spec. | 4 : 0~200℃ for JIS spec. |
| 5 : 0~300℃ for JIS spec. | 6 : 0~400℃ for JIS spec. |
| 7 : -50~+50℃ for DIN spec. | 8 : 0~50℃ for DIN spec. |
| 9 : 0~100℃ for DIN spec. | A : 0~200℃ for DIN spec. |
| B : 0~300℃ for DIN spec. | C : 0~400℃ for DIN spec. |
| D : Other Special Spec. | |

Output Type & Range Selection

- 1 : DC 0~10mV (Resistance 10kΩ or More)
 2 : DC 0~100mV (Resistance 100kΩ or More)
 3 : DC 0~5V (Resistance 5kΩ or More)
 4 : DC 0~10V (Resistance 10kΩ or More)
 5 : DC 1~5V (Resistance 5kΩ or More)
 6 : DC 0~1mA (Resistance 0~15kΩ)
 7 : DC 0~20mA (Resistance 0~750Ω)
 8 : DC 4~20mA (Resistance 0~750Ω)
 9 : Other Special Spec.
 N : No Output (Only Output 2)

Power Supply

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

♣ Dimension

