

ORDERING INFORMATION

MODEL : R7M-RS4

PLEASE FILL IN THIS SECTION



| |
|---------|
| Model |
| Company |
| Name |
| P/O No. |

FACTORY USE ONLY



| | |
|---------|-------------------------------|
| Job No. | Approved by (Sales office) |
| Ser No. | Issued by (Sales office) |
| Sales | Approved by (Factory) |
| | Set by (Factory) |
| | Ser No. |

Specify the items you want to change. Default setting will be used if not specified.

DEFAULT shows values in case of nothing specified.

■ RTD TYPE SETTING (APPLIES TO ALL 4 CHANNELS)

| ITEM | SET VALUE | DEFAULT VALUE | Factory Internal check |
|------|--|----------------------|--------------------------|
| RTD | <input type="checkbox"/> Pt 100 (JIS'97, IEC) | Pt 100 (JIS'97, IEC) | <input type="checkbox"/> |
| | <input type="checkbox"/> Pt 100 (JIS'89) | | |
| | <input type="checkbox"/> JPt 100 (JIS'89) | | |
| | <input type="checkbox"/> Pt 50Ω (JIS'81) | | |
| | <input type="checkbox"/> Ni 100 | | |
| | <input type="checkbox"/> Cu 10 (25°C) | | |
| | <input type="checkbox"/> Cu 50 | | |
| | <input type="checkbox"/> PC Configurator setting | | |

When you want to set each channel independently, select "PC Configuration setting", then specify each channel in "THERMOCOUPLE TYPE SETTING (INDEPENDENT RANGE PER CHANNEL)".

■ RTD TYPE SETTING (INDEPENDENT RANGE PER CHANNEL)

| CHANNEL | RTD | SET VALUE | DEFAULT VALUE | Factory Internal check |
|---------|---|-----------|----------------------|--------------------------|
| INPUT 0 | Pt 100 (JIS'97, IEC) Pt 100 (JIS'89) | | Pt 100 (JIS'97, IEC) | <input type="checkbox"/> |
| INPUT 1 | JPt 100 (JIS'89) Pt 50Ω (JIS'81) | | Pt 100 (JIS'97, IEC) | <input type="checkbox"/> |
| INPUT 2 | Ni 100 Cu 10 (25°C) | | Pt 100 (JIS'97, IEC) | <input type="checkbox"/> |
| INPUT 3 | Cu 50 Unused | | Pt 100 (JIS'97, IEC) | <input type="checkbox"/> |

Unused channels are set default.

■ TEMPARATURE UNIT SETTING

| CHANNEL | SET VALUE | DEFAULT VALUE | Factory Internal check |
|---------|--|---------------|--------------------------|
| INPUT 0 | <input type="checkbox"/> °C <input type="checkbox"/> °F <input type="checkbox"/> K | °C | <input type="checkbox"/> |
| INPUT 1 | <input type="checkbox"/> °C <input type="checkbox"/> °F <input type="checkbox"/> K | °C | <input type="checkbox"/> |
| INPUT 2 | <input type="checkbox"/> °C <input type="checkbox"/> °F <input type="checkbox"/> K | °C | <input type="checkbox"/> |
| INPUT 3 | <input type="checkbox"/> °C <input type="checkbox"/> °F <input type="checkbox"/> K | °C | <input type="checkbox"/> |

■ BURNOUT SETTING

| ITEM | SET VALUE | DEFAULT VALUE | Factory Internal check |
|---------|------------------------------------|---------------|--------------------------|
| BURNOUT | <input type="checkbox"/> Upscale | Upscale | <input type="checkbox"/> |
| | <input type="checkbox"/> Downscale | | |

■ MODBUS COMMUNICATION PARAMETERS

| ITEM | SET VALUE *1 | DEFAULT VALUE | Factory Internal check |
|-----------------------------|-----------------------------------|---------------|--------------------------|
| Data Mode and Bit Length *2 | <input type="checkbox"/> 7: ASCII | 8: RTU | <input type="checkbox"/> |
| | <input type="checkbox"/> 8: RTU | | |
| Parity Bit*2 | <input type="checkbox"/> None | None | <input type="checkbox"/> |
| | <input type="checkbox"/> Odd | Available | |
| | <input type="checkbox"/> Even | | |

*1. Choose appropriately for the connected device.

Standard settings of the other products of us are **Data Mode: RTU, Bit Length: 8**, **Parity Bit: Odd (Available)** and **Stop Bit: 1**. Stop Bit cannot be specified, as Stop Bit is set to 1 or 2 by specifying with Data Mode and Parity Bit.

*2. Bit assignment according to setting of Data Mode, Bit Length and Parity.

| MODE | START | DATA | PARITY | STOP |
|-------|-------|------|-----------|------|
| ASCII | 1 | 7 | Available | 1 |
| | 1 | 7 | None | 2 |
| RTU | 1 | 8 | Available | 1 |
| | 1 | 8 | None | 2 |

■ BAUD RATE

| ITEM | SET VALUE | DEFAULT VALUE | Factory Internal check |
|-----------|------------------------------------|---------------|--------------------------|
| BAUD RATE | <input type="checkbox"/> 38.4 kbps | 38.4 kbps | <input type="checkbox"/> |
| | <input type="checkbox"/> 19.2 kbps | | |
| | <input type="checkbox"/> 9600 bps | | |
| | <input type="checkbox"/> 4800 bps | | |

■ CONVERSION RATE

| ITEM | SET VALUE | DEFAULT VALUE | Factory Internal check |
|-----------------|------------------------------------|---------------|--------------------------|
| CONVERSION RATE | <input type="checkbox"/> 250 msec. | 250 msec. | <input type="checkbox"/> |
| | <input type="checkbox"/> 500 msec. | | |

■ NODE ADDRESS

| AVAILABLE VALUE | SET VALUE | DEFAULT VALUE | Factory Internal check |
|-----------------|-----------|---------------|--------------------------|
| 1 to 99 | | 0 | <input type="checkbox"/> |

■ EXTENSION

| ITEM | SET VALUE | DEFAULT VALUE | Factory Internal check |
|-----------|--|---------------|--------------------------|
| EXTENSION | <input type="checkbox"/> No extension | No extension | <input type="checkbox"/> |
| | <input type="checkbox"/> Discrete input, 8 points / 16 points | | |
| | <input type="checkbox"/> Discrete output, 8 points / 16 points | | |

Note: The default data conversion is 10 times of the value in engineering unit (for °C and K).

When you want to convert to different value, specify the following.

- Choose "Scaled value" in CONVERTED DATA RANGE section.
- Specify temperature range in RTD RANGE SETTING section.
- Specify zero and full scale in SCALING section.

■ CONVERTED DATA RANGE

| CHANNEL | SET VALUE | DEFAULT VALUE | Factory Internal check |
|---------|--|---------------------------|--------------------------|
| INPUT 0 | <input type="checkbox"/> Value in engineering unit | Value in engineering unit | <input type="checkbox"/> |
| | <input type="checkbox"/> Scaled value | | |
| INPUT 1 | <input type="checkbox"/> Value in engineering unit | Value in engineering unit | <input type="checkbox"/> |
| | <input type="checkbox"/> Scaled value | | |
| INPUT 2 | <input type="checkbox"/> Value in engineering unit | Value in engineering unit | <input type="checkbox"/> |
| | <input type="checkbox"/> Scaled value | | |
| INPUT 3 | <input type="checkbox"/> Value in engineering unit | Value in engineering unit | <input type="checkbox"/> |
| | <input type="checkbox"/> Scaled value | | |

■ RTD RANGE SETTING

| CHANNEL | RTD | SET VALUE | Factory Internal check |
|---------|------------|-----------|--------------------------|
| INPUT 0 | See Table1 | to | <input type="checkbox"/> |
| INPUT 1 | | to | <input type="checkbox"/> |
| INPUT 2 | | to | <input type="checkbox"/> |
| INPUT 3 | | to | <input type="checkbox"/> |

[Table 1]

| RTD | AVAILABLE RANGE | | |
|----------------------|-----------------|---------------|------------|
| | °C | °F | K |
| Pt 100 (JIS'97, IEC) | -200 to +850 | -328 to +1562 | 74 to 1123 |
| Pt 100 (JIS'89) | -200 to +660 | -328 to +1220 | 74 to 933 |
| JPt 100 (JIS'89) | -200 to +510 | -328 to +950 | 74 to 783 |
| Pt 50Ω (JIS'81) | -200 to +649 | -328 to +1200 | 74 to 922 |
| Ni 100 | -80 to +250 | -112 to +482 | 194 to 523 |
| Cu 10 (25°C) | -50 to +250 | -58 to +482 | 224 to 523 |
| Cu 50 | -50 to +150 | -58 to +302 | 224 to 423 |

■ SCALING

Set zero and full scale to each channel (zero scale to full scale)

| CHANNEL | AVAILABLE VALUE | SET VALUE | DEFAULT VALUE | Factory Internal check |
|---------|------------------|-----------|---------------|--------------------------|
| INPUT 0 | -32000 to +32000 | to | 0 to 10000 | <input type="checkbox"/> |
| INPUT 1 | -32000 to +32000 | to | 0 to 10000 | <input type="checkbox"/> |
| INPUT 2 | -32000 to +32000 | to | 0 to 10000 | <input type="checkbox"/> |
| INPUT 3 | -32000 to +32000 | to | 0 to 10000 | <input type="checkbox"/> |