

# ORDERING INFORMATION

# MODEL : M2EAXR

## PLEASE FILL IN THIS SECTION



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

## FACTORY USE ONLY



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

### INPUT SETTING

| ITEM                   | SET VALUE  | DEFAULT VALUE          | COMMENTS  | Factory Internal check   |
|------------------------|--|------------------------|---|--------------------------|
| Input range            | <input type="checkbox"/> JPt100 (JIS'89)<br><input type="checkbox"/> Pt100 (JIS'89)<br><input type="checkbox"/> Pt100 (JIS'97, IEC)<br><input type="checkbox"/> Pt50Ω (JIS'81)<br><input type="checkbox"/> Ni508.4Ω<br><input type="checkbox"/> Pt1000<br><input type="checkbox"/> Ni100<br><input type="checkbox"/> Cu10 @ 25°C | Pt100<br>(JIS'97, IEC) | Choose among 8 types  | <input type="checkbox"/> |
| Temperature unit       | <input type="checkbox"/> Celsius<br><input type="checkbox"/> Fahrenheit<br><input type="checkbox"/> Absolute   | Celsius                | Choose among 3 types  | <input type="checkbox"/> |
| 0 % input setting      |  | 0.0                    | Specify within settable range in the table 1.   | <input type="checkbox"/> |
| 100 % input setting    |  | 100.0                  |   |                          |
| Input decimal point    | <input type="checkbox"/> No decimal point<br><input type="checkbox"/> 1 place of decimals<br><input type="checkbox"/> 2 places of decimals   | 1 place of decimals    | Choose among 3 types<br>Set the decimal point position for 0 % input setting and 100 % input setting. | <input type="checkbox"/> |
| Burnout                | <input type="checkbox"/> None<br><input type="checkbox"/> Down<br><input type="checkbox"/> Up  | UP                     | Choose among 3 types  | <input type="checkbox"/> |
| Sensor wires           | <input type="checkbox"/> 2 wires<br><input type="checkbox"/> 3 wires   | 3 wires                | Choose among 2 types  | <input type="checkbox"/> |
| Filter time constant*1 |  | 0 sec.                 | Specify the range between 0 and 30 sec.   | <input type="checkbox"/> |

\*1. Filter time constant

Set filter time constant of the first order lowpass filter. The first order lowpass filter is available with setting time. When '0' is set to this parameter, the filtering process is not performed (Response time: ≤ 0.5 sec. (0 – 100 % at 90 % setpoint)). The setting time constant is the time to follow until about 63 %, when input varies from 0 % to 100 %.

## ■ ALARM SETTING

| ITEM  |                | SET VALUE   | DEFAULT VALUE                                | COMMENTS   | Factory Internal check   |
|---|----------------|---|--|--|--------------------------|
| L1 alarm                                    | Alarm enable   | <input type="checkbox"/> Enable<br><input type="checkbox"/> Disable         | Enable                                       | Specify Enable or Disable.   | <input type="checkbox"/> |
|   | Alarm setpoint |   | 20.0   | Specify the range between 0% input setting and 100% input scaling. Decimal point is same as [0 % input setting]. | <input type="checkbox"/> |
|   | Trip action    | <input type="checkbox"/> High<br><input type="checkbox"/> Low               | Low  | Specify High or Low.   | <input type="checkbox"/> |
|   | Deadband       |   | 1.0  | Specify the range 0 to 999999. Decimal point is same as [0 % input setting].                                     | <input type="checkbox"/> |
|   | Coil at alarm  | <input type="checkbox"/> Energized<br><input type="checkbox"/> De-energized | Energized                                    | Specify Energized or De-energized.   | <input type="checkbox"/> |
| L2 alarm                                    | Alarm enable   | <input type="checkbox"/> Enable<br><input type="checkbox"/> Disable         | Enable                                       | Specify Enable or Disable.   | <input type="checkbox"/> |
|   | Alarm setpoint |   | 80.0<br>(Dual alarm)<br>30.0<br>(Quad alarm) | Specify the range between 0% input setting and 100% input setting. Decimal point is same as [0 % input setting]. | <input type="checkbox"/> |
|   | Trip action    | <input type="checkbox"/> High<br><input type="checkbox"/> Low               | High<br>(Dual alarm)<br>Low<br>(Quad alarm)  | Specify High or Low.   | <input type="checkbox"/> |
|   | Deadband       |   | 1.0  | Specify the range 0 to 999999. Decimal point is same as [0 % input setting].                                     | <input type="checkbox"/> |
|   | Coil at alarm  | <input type="checkbox"/> Energized<br><input type="checkbox"/> De-energized | Energized                                    | Specify Energized or De-energized.   | <input type="checkbox"/> |
| L3 alarm<br>(Available only for quad alarm) | Alarm enable   | <input type="checkbox"/> Enable<br><input type="checkbox"/> Disable         | Enable                                       | Specify Enable or Disable.   | <input type="checkbox"/> |
|   | Alarm setpoint |   | 70.0   | Specify the range between 0% input setting and 100% input setting. Decimal point is same as [0 % input setting]. | <input type="checkbox"/> |
|   | Trip action    | <input type="checkbox"/> High<br><input type="checkbox"/> Low               | High   | Specify High or Low.   | <input type="checkbox"/> |
|   | Deadband       |   | 1.0  | Specify the range 0 to 999999. Decimal point is same as [0 % input setting].                                     | <input type="checkbox"/> |
|   | Coil at alarm  | <input type="checkbox"/> Energized<br><input type="checkbox"/> De-energized | Energized                                    | Specify Energized or De-energized.   | <input type="checkbox"/> |
| L4 alarm<br>(Available only for quad alarm) | Alarm enable   | <input type="checkbox"/> Enable<br><input type="checkbox"/> Disable         | Enable                                       | Specify Enable or Disable.   | <input type="checkbox"/> |
|   | Alarm setpoint |   | 80.0   | Specify the range between 0% input setting and 100% input setting. Decimal point is same as [0 % input setting]. | <input type="checkbox"/> |
|   | Trip action    | <input type="checkbox"/> High<br><input type="checkbox"/> Low               | High   | Specify High or Low.   | <input type="checkbox"/> |
|   | Deadband       |   | 1.0  | Specify the range 0 to 999999. Decimal point is same as [0 % input setting].                                     | <input type="checkbox"/> |
|   | Coil at alarm  | <input type="checkbox"/> Energized<br><input type="checkbox"/> De-energized | Energized                                    | Specify Energized or De-energized.   | <input type="checkbox"/> |
| Alarm ON-delay time                         |                |   | 0 sec.                                       | Specify the range 0 to 999 sec.  | <input type="checkbox"/> |
| Power ON-delay time                         |                |   | 5 sec.                                       | Specify the range 0 to 999 sec.  | <input type="checkbox"/> |
| Latching alarm                              |                | <input type="checkbox"/> Enable<br><input type="checkbox"/> Disable         | Disable                                      | Specify Disable or Enable  | <input type="checkbox"/> |

## ■ DISPLAY SETTING

| ITEM            | SET VALUE        | DEFAULT VALUE                | COMMENTS   | Factory Internal check   |
|-----------------|------------------|------------------------------|--|--------------------------|
| Display setting | Upper:<br>Lower: | Upper: INPUT<br>Lower: ALARM | Choose from the setting value in the table 2.                                  | <input type="checkbox"/> |
| Brightness      |                  | 4                            | Specify among 1 (darkest) to 4 (brightest).                                    | <input type="checkbox"/> |
| Display timeout |                  | 10 min.                      | Specify the range from 0, 1 to 60 min.<br>Set '0 min.' to display 'always on'. | <input type="checkbox"/> |

**Table 1**

| INPUT RANGE         | MIN. SPAN |       | SETTABLE RANGE     |                     |                  |
|---------------------|-----------|-------|--------------------|---------------------|------------------|
|                     | °C, K     | °F    | °C                 | K                   | °F               |
| JPt100 (JIS'89)     | 20.00     | 36.00 | -200.00 to +500.00 | -328.00 to +932.00  | 73.15 to 773.15  |
| Pt100 (JIS'89)      |           |       | -200.00 to +650.00 | -328.00 to +1202.00 | 73.15 to 923.15  |
| Pt100 (JIS'97, IEC) |           |       | -200.00 to +850.00 | -328.00 to +1562.00 | 73.15 to 1123.15 |
| Pt50Ω (JIS'81)      |           |       | -200.00 to +649.00 | -328.00 to +1200.20 | 73.15 to 922.15  |
| Ni508.4Ω            |           |       | -50.00 to +200.00  | -58.00 to +392.00   | 223.15 to 473.15 |
| Pt1000              |           |       | -200.00 to +850.00 | -328.00 to +1562.00 | 73.15 to 1123.15 |
| Ni100               |           |       | -50.00 to +200.00  | -58.00 to +392.00   | 223.15 to 473.15 |
| Cu10 @ 25°C         |           |       | -50.00 to +250.00  | -58.00 to +482.00   | 223.15 to 523.15 |

Note: For set value, specify so that value is within the settable range depending on type of the RTD.

**Table 2**

### Upper

| SETTING VALUE | DESCRIPTION                  |
|---------------|------------------------------|
| INPUT         | Input engineering unit value |
| RESISTANCE    | Input resistance             |
| PERCENT       | Percent value*2              |

### Lower

| SETTING VALUE | DESCRIPTION                  |
|---------------|------------------------------|
| ALARM         | Alarm                        |
| INPUT         | Input engineering unit value |
| RESISTANCE    | Input resistance             |
| PERCENT       | Percent value*2              |
| None          | No display                   |

\*2. Converted % value as 0.00 to 100.00 % based on input setting value.