

ORDERING INFORMATION

MODEL : M1EXT-2

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.

■ CH1 INPUT SETTING

| ITEM | SET VALUE | DEFAULT VALUE | COMMENTS | Factory Internal check |
|------------------------|--|---------------------|---|--------------------------|
| Input range | <input type="checkbox"/> (PR) <input type="checkbox"/> K (CA) <input type="checkbox"/> E (CRC) <input type="checkbox"/> J (IC) <input type="checkbox"/> T (CC) <input type="checkbox"/> B (RH) <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> C (WRe 5-26) <input type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> L <input type="checkbox"/> P (Platinel II) | K (CA) | Choose among 13 types | <input type="checkbox"/> |
| Temperature unit | <input type="checkbox"/> Celsius <input type="checkbox"/> Fahrenheit <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 | | 1000.0 | | |
| Input decimal point | <input type="checkbox"/> No decimal point <input type="checkbox"/> 1 place of decimals <input type="checkbox"/> 2 places of decimals | 1 place of decimals | Choose among 3 types Set the decimal point position for 0 % input setting and 100 % input setting. | <input type="checkbox"/> |
| Burnout | <input type="checkbox"/> None <input type="checkbox"/> Down <input type="checkbox"/> Up | UP | Choose among 3 types | <input type="checkbox"/> |
| CJM / Fixed temp. | <input type="checkbox"/> CJM <input type="checkbox"/> Fixed terminal temperature () | CJM | Choose among 2 types When Fixed temp. is used, specify desired value (-50.00 to +100.00°C) | <input type="checkbox"/> |
| Filter time constant*1 | | 0 sec. | Specify the range between 0 and 30 sec. | <input type="checkbox"/> |

■ CH1 OUTPUT SETTING

| ITEM | SET VALUE | DEFAULT VALUE | COMMENTS | Factory Internal check |
|----------------------|--|-----------------------------------|---|--------------------------|
| Output range | <input type="checkbox"/> 0 to 20 mA DC <input type="checkbox"/> -5 to +5 V DC <input type="checkbox"/> -10 to +10 V DC | 0 to 20 mA DC | Choose among 3 types | <input type="checkbox"/> |
| 0 % output setting | | 4.000 mA -5.000 V -10.000 V | Specify within settable range in the table 2. | <input type="checkbox"/> |
| 100 % output setting | | 20.000 mA 5.000 V 10.000 V | | |

■ CH2 INPUT SETTING

| ITEM | SET VALUE | DEFAULT VALUE | COMMENTS | Factory Internal check |
|------------------------|--|---------------------|---|--------------------------|
| Input range | <input type="checkbox"/> (PR) <input type="checkbox"/> K (CA) <input type="checkbox"/> E (CRC) <input type="checkbox"/> J (IC) <input type="checkbox"/> T (CC) <input type="checkbox"/> B (RH) <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> C (WRe 5-26) <input type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> L <input type="checkbox"/> P (Platinel II) | K (CA) | Choose among 13 types | <input type="checkbox"/> |
| Temperature unit | <input type="checkbox"/> Celsius <input type="checkbox"/> Fahrenheit <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 | | 1000.0 | | |
| Input decimal point | <input type="checkbox"/> No decimal point <input type="checkbox"/> 1 place of decimals <input type="checkbox"/> 2 places of decimals | 1 place of decimals | Choose among 3 types Set the decimal point position for 0 % input setting and 100 % input setting. | <input type="checkbox"/> |
| Burnout | <input type="checkbox"/> None <input type="checkbox"/> Down <input type="checkbox"/> Up | UP | Choose among 3 types | <input type="checkbox"/> |
| CJM / Fixed temp. | <input type="checkbox"/> CJM <input type="checkbox"/> Fixed terminal temperature () | CJM | Choose among 2 types When Fixed temp. is used, specify desired value (-50.00 to +100.00°C) | <input type="checkbox"/> |
| Filter time constant*1 | | 0 sec. | Specify the range between 0 and 30 sec. | <input type="checkbox"/> |

■ CH2 OUTPUT SETTING

| ITEM | SET VALUE | DEFAULT VALUE | COMMENTS | Factory Internal check |
|----------------------|--|-----------------------------------|---|--------------------------|
| Output range | <input type="checkbox"/> 0 to 20 mA DC <input type="checkbox"/> -5 to +5 V DC <input type="checkbox"/> -10 to +10 V DC | 0 to 20 mA DC | Choose among 3 types | <input type="checkbox"/> |
| 0 % output setting | | 4.000 mA -5.000 V -10.000 V | Specify within settable range in the table 2. | <input type="checkbox"/> |
| 100 % output setting | | 20.000 mA 5.000 V 10.000 V | | |

*1. Filter time constant

Set filter time constant of the first order lag filter. The first order lag filter is available with setting time. When '0' is set to this parameter, the first order lag filter is not available (Response time: ≤ 0.5 sec. (0 \rightarrow 90 %)). The first order lag filter is equivalent to general CR filter. The setting time constant is the time to follow until about 63 %, when input varies from 0 % to 100 %.

■ OTHER SETTING

| ITEM | SET VALUE | DEFAULT VALUE | COMMENTS | Factory Internal check |
|-----------------|--|--------------------------------------|--|--------------------------|
| Display setting | Upper: Lower: | Upper: Ch1 INPUT Lower: Ch2 INPUT | Choose from the setting value in the table 3. | <input type="checkbox"/> |
| Chanel enable | CH1 <input type="checkbox"/> Enable <input type="checkbox"/> Disable | CH1: Enable | Specify enable or disable. It is not available to disable CH1 and CH2 simultaneously. | <input type="checkbox"/> |
| | CH2 <input type="checkbox"/> Enable <input type="checkbox"/> Disable | CH2: Enable | | |
| 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. Set '0' to display 'always on'. | <input type="checkbox"/> |

Table 1

| INPUT RANGE | MIN. SPAN | | SETTABLE RANGE | | |
|-----------------|-----------|-------|---------------------|---------------------|-------------------|
| | °C, K | °F | °C | °F | K |
| (PR) | 20.00 | 36.00 | 0.00 to 1760.00 | 32.00 to 3200.00 | 273.15 to 2033.15 |
| K (CA) | | | -270.00 to +1370.00 | -454.00 to +2498.00 | 3.15 to 1643.15 |
| E (CRC) | | | -270.00 to +1000.00 | -454.00 to +1832.00 | 3.15 to 1273.15 |
| J (IC) | | | -210.00 to +1200.00 | -346.00 to +2192.00 | 63.15 to 1473.15 |
| T (CC) | | | -270.00 to +400.00 | -454.00 to +752.00 | 3.15 to 673.15 |
| B (RH) | | | 0.00 to 1820.00 | -32.00 to +3308.00 | 273.15 to 2093.15 |
| R | | | -50.00 to +1760.00 | -58.00 to +3200.00 | 223.15 to 2033.15 |
| S | | | -50.00 to +1760.00 | -58.00 to +3200.00 | 223.15 to 2033.15 |
| C (WRe 5-26) | | | 0.00 to 2315.00 | 32.00 to 4199.00 | 273.15 to 2588.15 |
| N | | | -270.00 to +1300.00 | -454.00 to +2372.00 | 3.15 to 1573.15 |
| U | | | -200.00 to +600.00 | -328.00 to +1112.00 | 73.15 to 873.15 |
| L | | | -200.00 to +900.00 | -328.00 to +1652.00 | 73.15 to 1173.15 |
| P (Platinel II) | | | 0.00 to 1395.00 | 32.00 to 2543.00 | 273.15 to 1668.15 |

Note. For set value, specify so that value is within the settable range depending on type of the T/C.

Table 2

| OUTPUT RANGE | | MIN. SPAN | SETTABLE RANGE |
|----------------|-----------------|-----------|----------------------|
| Current output | 0 to 20 mA DC | 1.000 mA | 0.000 to 20.000 mA |
| Voltage output | -5 to +5 mV DC | 0.250 V | -5.000 to +5.000 V |
| | -10 to +10 V DC | 1.000 V | -10.000 to +10.000 V |

Table 3**Upper**

| SETTING VALUE | DESCRIPTION |
|----------------------|-------------------------------------|
| Ch1 INPUT | Ch1 input engineering unit value |
| Ch1 VOLTAGE | Ch1 input electromotive force value |
| Ch1 PERCENT | Ch1 percent value* ² |
| Ch1 OUTPUT | Ch1 output engineering unit value |
| Ch2 INPUT | Ch2 input engineering unit value |
| Ch2 VOLTAGE | Ch2 input electromotive force value |
| Ch2 PERCENT | Ch2 percent value* ² |
| Ch2 OUTPUT | Ch2 output engineering unit value |

Lower

| SETTING VALUE | DESCRIPTION |
|----------------------|-------------------------------------|
| Ch1 INPUT | Ch1 input engineering unit value |
| Ch1 VOLTAGE | Ch1 input electromotive force value |
| Ch1 PERCENT | Ch1 percent value * ² |
| Ch1 OUTPUT | Ch1 output engineering unit value |
| Ch2 INPUT | Ch2 input engineering unit value |
| Ch2 VOLTAGE | Ch2 input electromotive force value |
| Ch2 PERCENT | Ch2 percent value * ² |
| Ch2 OUTPUT | Ch2 output engineering unit value |
| None | No display |

*2. Display the value which is converted as 0.00 - 100.00 % based on input setting.