MC-2 Series Micro Processor Temperature Controller

Application

<table>
<thead>
<tr>
<th>Plastic, rubber, equipment</th>
<th>Semiconductor electronic components industry</th>
<th>Food related industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection molding machinery</td>
<td>Preheater</td>
<td>Refrigerating machine (General, for fishing vessel)</td>
</tr>
<tr>
<td>Extruding machinery</td>
<td>Cleaning equipment</td>
<td>Dryer</td>
</tr>
<tr>
<td>Mold temperature controllers</td>
<td>Mold equipment</td>
<td>Humidifier</td>
</tr>
<tr>
<td>Vacuum forming</td>
<td>Bonding machine</td>
<td>Bakery, confectionery equipment</td>
</tr>
<tr>
<td>Blow molding (Thermo foaming)</td>
<td>Diffusion equipment</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electric furnaces</th>
<th>Pottery manufacturing Ceramic and Glass industry</th>
<th>Packing machine industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baking furnace</td>
<td>Ceramic industry</td>
<td>Bag-making machinery</td>
</tr>
<tr>
<td>Heavy oil, gas furnaces</td>
<td>Glass industry</td>
<td>Filling packing machinery</td>
</tr>
<tr>
<td>Incinerator</td>
<td>Porcelain enameling</td>
<td>Hot blast sealing</td>
</tr>
<tr>
<td>Aluminum, tin, lead, zinc melting furnace</td>
<td>Grind stone manufacturing</td>
<td>Shrinking packing machinery</td>
</tr>
<tr>
<td>Vacuum furnace</td>
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</table>


Panel Function

<table>
<thead>
<tr>
<th>No.</th>
<th>Marks</th>
<th>Description</th>
<th>No.</th>
<th>Marks</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>PV</td>
<td>Process value</td>
<td>8</td>
<td>OUT1</td>
<td>Output 1 lamp</td>
</tr>
<tr>
<td>2</td>
<td>SV</td>
<td>Set value</td>
<td>9</td>
<td>OUT2</td>
<td>Output 2 lamp</td>
</tr>
<tr>
<td>3</td>
<td>SET</td>
<td>Set key &amp; enter key</td>
<td>10</td>
<td>AT</td>
<td>Auto tuning lamp</td>
</tr>
<tr>
<td>4</td>
<td>A/M</td>
<td>Manual / auto exchange key</td>
<td>11</td>
<td>AL1</td>
<td>Alarm 1 lamp</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Shift key</td>
<td>12</td>
<td>AL2</td>
<td>Alarm 2 lamp</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Down key</td>
<td>13</td>
<td>AL3</td>
<td>Alarm 3 lamp</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Up key</td>
<td>14</td>
<td>OUT1%</td>
<td>Output 1 percentage lamp</td>
</tr>
</tbody>
</table>

External Dimension

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-2438</td>
<td>44.5 ± 0.5</td>
<td>44.5 ± 0.5</td>
<td>65</td>
<td>70</td>
<td>50</td>
<td>50</td>
<td>80</td>
<td>17</td>
</tr>
<tr>
<td>MC-2538</td>
<td>44.5 ± 0.5</td>
<td>90.5 ± 0.5</td>
<td>65</td>
<td>116</td>
<td>50</td>
<td>96</td>
<td>80</td>
<td>17</td>
</tr>
<tr>
<td>MC-2638</td>
<td>90.5 ± 0.5</td>
<td>44.5 ± 0.5</td>
<td>111</td>
<td>70</td>
<td>96</td>
<td>50</td>
<td>80</td>
<td>17</td>
</tr>
<tr>
<td>MC-2738</td>
<td>68.5 ± 0.5</td>
<td>68.5 ± 0.5</td>
<td>89</td>
<td>94</td>
<td>74</td>
<td>74</td>
<td>80</td>
<td>17</td>
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<tr>
<td>MC-2838</td>
<td>90.5 ± 0.5</td>
<td>90.5 ± 0.5</td>
<td>111</td>
<td>116</td>
<td>96</td>
<td>96</td>
<td>80</td>
<td>17</td>
</tr>
</tbody>
</table>

Unit: mm
## Standard Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>MC-2438</th>
<th>MC-2538</th>
<th>MC-2638</th>
<th>MC-2738</th>
<th>MC-2838</th>
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<tbody>
<tr>
<td>Appearance</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
<tr>
<td>Size</td>
<td>48 mm x 48 mm</td>
<td>48 mm x 96 mm</td>
<td>96 mm x 48 mm</td>
<td>72 mm x 72 mm</td>
<td>96 mm x 96 mm</td>
</tr>
<tr>
<td>Cut-Out</td>
<td>44.5mm x 44.5mm</td>
<td>44.5mm x 90.5mm</td>
<td>90.5mm x 44.5mm</td>
<td>68.5mm x 68.5mm</td>
<td>90.5mm x 90.5mm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.5% F.S.</td>
<td>±0.5% F.S.</td>
<td>±0.5% F.S.</td>
<td>±0.5% F.S.</td>
<td>±0.5% F.S.</td>
</tr>
<tr>
<td>Control Action</td>
<td>PID, P, PI, PD, ON/OFF (P=0)</td>
<td>PID, P, PI, PD, ON/OFF (P=0)</td>
<td>PID, P, PI, PD, ON/OFF (P=0)</td>
<td>PID, P, PI, PD, ON/OFF (P=0)</td>
<td>PID, P, PI, PD, ON/OFF (P=0)</td>
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<tr>
<td>Sample time</td>
<td>250ms</td>
<td>250ms</td>
<td>250ms</td>
<td>250ms</td>
<td>250ms</td>
</tr>
<tr>
<td>RTD</td>
<td>DIN PT100Ω, JIS PT100Ω</td>
<td>DIN PT100Ω, JIS PT100Ω</td>
<td>DIN PT100Ω, JIS PT100Ω</td>
<td>DIN PT100Ω, JIS PT100Ω</td>
<td>DIN PT100Ω, JIS PT100Ω</td>
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<tr>
<td>mA DC</td>
<td>0<del>20mA, 4</del>20mA</td>
<td>0<del>20mA, 4</del>20mA</td>
<td>0<del>20mA, 4</del>20mA</td>
<td>0<del>20mA, 4</del>20mA</td>
<td>0<del>20mA, 4</del>20mA</td>
</tr>
<tr>
<td>Voltage DC</td>
<td>0<del>20mV, 0</del>50mV, 0<del>5V, 0</del>10V, 1<del>5V, 1</del>10V, 2~10V</td>
<td>0<del>20mV, 0</del>50mV, 0<del>5V, 0</del>10V, 1<del>5V, 1</del>10V, 2~10V</td>
<td>0<del>20mV, 0</del>50mV, 0<del>5V, 0</del>10V, 1<del>5V, 1</del>10V, 2~10V</td>
<td>0<del>20mV, 0</del>50mV, 0<del>5V, 0</del>10V, 1<del>5V, 1</del>10V, 2~10V</td>
<td>0<del>20mV, 0</del>50mV, 0<del>5V, 0</del>10V, 1<del>5V, 1</del>10V, 2~10V</td>
</tr>
<tr>
<td>Output 1</td>
<td>SPST Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
</tr>
<tr>
<td>Relay</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
</tr>
<tr>
<td>SSR</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
</tr>
<tr>
<td>4~20mA</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
</tr>
<tr>
<td>Voltage DC</td>
<td>0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
<td>0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
<td>0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
<td>0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
<td>0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
</tr>
<tr>
<td>Alarm 1</td>
<td>SPST Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
</tr>
<tr>
<td>Temp. Setting Range</td>
<td>User Selection</td>
<td>User Selection</td>
<td>User Selection</td>
<td>User Selection</td>
<td>User Selection</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>AC 85 ~ 265V</td>
<td>50/60 Hz, DC 15 ~ 50V</td>
<td>AC 85 ~ 265V</td>
<td>50/60 Hz, DC 15 ~ 50V</td>
<td>AC 85 ~ 265V</td>
</tr>
</tbody>
</table>

### Optional Spec

<table>
<thead>
<tr>
<th>Model</th>
<th>MC-2438</th>
<th>MC-2538</th>
<th>MC-2638</th>
<th>MC-2738</th>
<th>MC-2838</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output 2</td>
<td>For heating and cooling control use</td>
<td>For heating and cooling control use</td>
<td>For heating and cooling control use</td>
<td>For heating and cooling control use</td>
<td>For heating and cooling control use</td>
</tr>
<tr>
<td>Relay</td>
<td>SPST Type</td>
<td>SPST Type</td>
<td>SPST Type</td>
<td>SPST Type</td>
<td>SPST Type</td>
</tr>
<tr>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td></td>
</tr>
<tr>
<td>SSR</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
<td>ON: 24V, OFF: 0V, Maximum load current: 20mA</td>
</tr>
<tr>
<td>4~20mA</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
<td>Maximum load resistance 300Ω</td>
</tr>
<tr>
<td>Alarm 2</td>
<td>SPST Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
<td>SPDT Type</td>
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<tr>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
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<tr>
<td>Alarm 3</td>
<td>None</td>
<td>SPST Type</td>
<td>SPST Type</td>
<td>SPST Type</td>
<td>SPST Type</td>
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<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
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<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
<td>3A, 220V, electrical life: 100,000 times or more (under the rated load)</td>
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Standard Specification

## Optional Spec

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<thead>
<tr>
<th>Model</th>
<th>MC-2438</th>
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<th>MC-2638</th>
<th>MC-2738</th>
<th>MC-2838</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retransmission</td>
<td>All series</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>0<del>20mA(Adjustable), 4</del>20mA(Adjustable), 0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Remote SV Input</td>
<td>All series</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote SV Input</td>
<td>0<del>20mA, 4</del>20mA, 0<del>5V, 0</del>10V, 1<del>5V, 2</del>10V</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Communication</td>
<td>Protocol : MODBUS RTU</td>
<td>RS232, RS485</td>
<td>Baud rate: 9600, 19200, 38400, 57600, 115200 bts</td>
<td>Data bits : 8, Stop bit : 1, Parity : None, Odd, Even</td>
<td></td>
</tr>
</tbody>
</table>

## Order Information

**MC** – **2 4 3 8** – **1 0 1** – **0 0 1** – **U A**

**A. Model:**
- 2438
- 2538
- 2638
- 2738
- 2838

**B. Out 1 control output mode**
- (Heating/Cooling):
  - 0 - None
  - 1 - Relay contact, SPDT 3A/240VAC
    - (*MC-2438: Relay contact, SPST 3A/240VAC)*
  - 2 - SSR Voltage pulse, 24VDC/20mA
  - 3 - Current, 4-20mA
  - 4 - Open loop motor valve (3wire)
  - 7 - Close loop motor valve (6wire)
  - A - 0~5V
  - B - 0~10V
  - C - 1~5V
  - D - 2~10V

**C. Out 2 control output mode**
- (Cooling):
  - 0 - None
  - 1 - Relay contact, SPST 3A/240VAC
    - (*MC-2438: Relay contact, SPST 3A/240VAC)*
  - 2 - SSR Voltage pulse, 24VDC/20mA
  - 3 - Current, 4-20mA
  - A - 0~5V
  - B - 0~10V
  - C - 1~5V
  - D - 2~10V

**D. Alarm:**
- 0 - None
- 1 - 1 set
- 2 - 2 sets
- 3 - 3 sets

**E. Retransmission :**
- 0 - None
- 1 - 4~20mA (Adjustable)
- 2 - 0~20mA (Adjustable)

**F. Second Input:**
- 0 - None
- 1 - 4~20mA
- 2 - 0~20mA
- 3 - CT for heater break alarm

**G. Communication:**
- 0 - None
- 1 - RS232
- 2 - RS485

**H. Input type:**
- U - TC/RTD
- A - 4~20mA
- B - 0~20mA
- C - 0~5V
- D - 0~10V
- E - 1~5V
- F - 2~10V

**I. Main power :**
- A - AC 85~265V
- D - DC 15~50V

**Optional Spec**

**Retransmission**

- All series

**Remote SV Input**

- All series

**Communication**

- Protocol : MODBUS RTU
- RS232, RS485
- Baud rate: 9600, 19200, 38400, 57600, 115200 bts
- Data bits : 8, Stop bit : 1, Parity : None, Odd, Even

**Order Information**

**MC** – **2 4 3 8** – **1 0 1** – **0 0 1** – **U A**

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  - 0 - None
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    - (*MC-2438: Relay contact, SPST 3A/240VAC)*
  - 2 - SSR Voltage pulse, 24VDC/20mA
  - 3 - Current, 4-20mA
  - 4 - Open loop motor valve (3wire)
  - 7 - Close loop motor valve (6wire)
  - A - 0~5V
  - B - 0~10V
  - C - 1~5V
  - D - 2~10V

**C. Out 2 control output mode**
- (Cooling):
  - 0 - None
  - 1 - Relay contact, SPST 3A/240VAC
    - (*MC-2438: Relay contact, SPST 3A/240VAC)*
  - 2 - SSR Voltage pulse, 24VDC/20mA
  - 3 - Current, 4-20mA
  - A - 0~5V
  - B - 0~10V
  - C - 1~5V
  - D - 2~10V

**D. Alarm:**
- 0 - None
- 1 - 1 set
- 2 - 2 sets
- 3 - 3 sets

**E. Retransmission :**
- 0 - None
- 1 - 4~20mA (Adjustable)
- 2 - 0~20mA (Adjustable)

**F. Second Input:**
- 0 - None
- 1 - 4~20mA
- 2 - 0~20mA
- 3 - CT for heater break alarm

**G. Communication:**
- 0 - None
- 1 - RS232
- 2 - RS485

**H. Input type:**
- U - TC/RTD
- A - 4~20mA
- B - 0~20mA
- C - 0~5V
- D - 0~10V
- E - 1~5V
- F - 2~10V

**I. Main power :**
- A - AC 85~265V
- D - DC 15~50V
**Wiring Diagram**

### MC-2438

**A. Power Supply**
- AC85~265V 50/60Hz
- or DC15~50V (option)

**B. Control Output**
- OUT1 Relay, SSR, mA, V
- OUT2 Relay, SSR, mA

**C. Input**
- mA, V
- RTD
- TC, mV

**D. Alarm**
- AL1
- AL2

**E. Retransmission**
- RS232
- RS485

**F. Remote SV**
- RD
- SD
- SG

**G. Communication**
- RS232
- RS485

### MC-2538 / MC-2638

**A. Power Supply**
- AC85~265V 50/60Hz
- or DC15~50V (option)

**B. Control Output**
- OUT1 Relay, SSR, mA, V
- OUT2 Relay, SSR, mA

**C. Input**
- mA, V
- RTD
- TC, mV

**D. Alarm**
- AL1
- AL2
- AL3

**E. Retransmission**
- RS232
- RS485

**F. Remote SV**
- RD
- SD
- SG

**G. Communication**
- RS232
- RS485
Wiring Diagram

**MC-2738**

A. Power Supply
AC85~265V 50/60Hz or DC15~50V (option)

B. Control Output

<table>
<thead>
<tr>
<th>OUT1 Relay, SSR, mA, V</th>
<th>OUT2 Relay, SSR, mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>NO</td>
<td>NC</td>
</tr>
<tr>
<td>COM</td>
<td>COM</td>
</tr>
</tbody>
</table>

Position Motor Valve Output (Optional)

OUT1 Open loop motor valve (3wire)
3 CLOSE 4 OPEN 5 COM

OUT1 Close loop motor valve (5wire)
3 CLOSE 4 OPEN 5 OPEN 6 W 7 CLOSE 8 COM

C. Input

mA, V RTD TC, mV
9 10 11

D. Alarm

AL1 AL2 AL3
3 NC 8 9 11 12 13

E. Retransmission

RS232 RS485
15 16

RS232 RS485
14 11 12

**MC-2838**

A. Power Supply
AC85~265V 50/60Hz or DC15~50V (option)

B. Control Output

<table>
<thead>
<tr>
<th>OUT1 Relay, SSR, mA, V</th>
<th>OUT2 Relay, SSR, mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
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<tr>
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<td>7</td>
</tr>
<tr>
<td>NO</td>
<td>NC</td>
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<tr>
<td>COM</td>
<td>COM</td>
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</tbody>
</table>

Position Motor Valve Output (Optional)

OUT1 Open loop motor valve (3wire)
8 CLOSE 9 OPEN 10 COM

OUT1 Close loop motor valve (5wire)
8 CLOSE 9 OPEN 10 W 11 OPEN 12 COM

C. Input

mA, V RTD TC, mV
9 10 11

D. Alarm

AL1 AL2 AL3
3 NC 8 11 12 13

E. Retransmission

RS232 RS485
15 16

RS232 RS485
14 11 12
### Special functions

#### Remote SV
- **Input Type:** 0~20mA, 4~20mA, 0~5V, 0~10V, 1~5V, 2~10V, 0~1V
- **MC-2X38**

#### Transmission
- **Signal Type:** PV, 5V
- **Output Type:** 0~20mA, 4~20mA, 0~5V, 0~10V, 1~5V, 2~10V, 0~1V

#### Dual Output (Heating and Cooling)
- **MC-2X38** Dual Output (Heating/Cooling)

#### Motor Valve Control
- **Sensor Input**
- **MC-2X38**
- **COM**

#### Program
- **Pattern 1**
- **Pattern 2**
- There are 2 patterns by 8 segments can be used in ramp/soak program.

#### Limit Setting
- **Built-in Output Limit Function**
- Use this function to get different gradient output and set limit for output.
- **OUT%**
- **OUTL=100%**
- **OUTL=80%**
- **OUTL=30%**

#### Alarm Function
- **System Failed Alarm**
- **System Normal Alarm**
- **PV High Alarm**
- **PV Low Alarm**
- **Program Run Alarm**
- **Program End Alarm**
- **Segment End Alarm**
- **Inhibit means alarm doesn’t work at first time**

#### Delay Time
- **Use this function can avoid alarm acts frequently or acts due to external disturbance.**
Application Examples Of System Integration

Maxtech Temperature Controllers

PC / IPC

RS-485

MODBUS

MC-N2x38
Station 1

MC-2x38
Station 2

MC-5x38
Station 3

MC-6M
Station 4

MC-5900
Station N

※ N=30~256

PC / IPC

Ethernet

MT Series HMI

MC-N2x38
Station 1

MC-2x38
Station 2

MC-5x38
Station 3

MC-6M
Station 4

MC-5900
Station N

※ N=30~256
Application Examples Of System Integration
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