### 3. CONTROL AT THE PATTERN END

<table>
<thead>
<tr>
<th>No.</th>
<th>Symbol</th>
<th>Name</th>
<th>Data range</th>
<th>Function block No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sn00</td>
<td>Time signal 1</td>
<td>0 to 60.0 seconds</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>Sn01</td>
<td>Time signal 2</td>
<td>0 to 60.0 seconds</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>Sn02</td>
<td>Time signal 3</td>
<td>0 to 15.0 seconds</td>
<td>60</td>
</tr>
<tr>
<td>4</td>
<td>Sn03</td>
<td>Time signal 4</td>
<td>0 to 15.0 seconds</td>
<td>60</td>
</tr>
</tbody>
</table>

#### Setting action at the Pattern end

There are two types of actions related to the action at the Pattern end: Control action ( desi ) and Output action ( out ).

These functions can be configured in Function block No. 21 ( Fn21 ) in the C3 E35 Engineering mode.

**Output action at the Pattern end**

- **Output action at the Pattern end**

The output action is a function that is performed when a specific condition is met during the execution of a program. These actions can be configured in Function block No. 21 ( Fn21 ) in the C3 E35 Engineering mode.

**Control action at the Pattern end**

- **Control action at the Pattern end**

The control action is a function that is performed when a specific condition is met during the execution of a program. These actions can be configured in Function block No. 21 ( Fn21 ) in the C3 E35 Engineering mode.

---

**Control action at the Pattern end ( C [M])**

You can select the control action (continue or stop control) at the Pattern end. The display set value is "continue" by default. When "continue" is selected, the control action continues until the next Pattern end. When "stop control" is selected, the control action stops immediately.

**Output action at the Pattern end ( E [M])**

You can select the control action (continue or stop control) at the Pattern end. The display set value is "continue" by default. When "continue" is selected, the output action continues until the next Pattern end. When "stop control" is selected, the output action stops immediately.

---

### 3.7.3.4.5 VARIABLE DESCRIPTIONS AND DATA RANGE

**No. Symbol Name Data range Factory set value**

<table>
<thead>
<tr>
<th>No.</th>
<th>Symbol</th>
<th>Name</th>
<th>Data range</th>
<th>Factory set value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sn00</td>
<td>Time signal 1</td>
<td>0 to 60.0 seconds</td>
<td>60</td>
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<td>Time signal 2</td>
<td>0 to 60.0 seconds</td>
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</tr>
<tr>
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<td>Sn03</td>
<td>Time signal 4</td>
<td>0 to 15.0 seconds</td>
<td>60</td>
</tr>
</tbody>
</table>

---

### 3.7.1.4.5 MEMORY REGISTER DESCRIPTIONS AND DATA RANGE

**No. Symbol Name Data range Factory set value**

<table>
<thead>
<tr>
<th>No.</th>
<th>Symbol</th>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>Time signal 3</td>
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<td>Sn03</td>
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</tr>
</tbody>
</table>

---

**Example of Variable Description**

- **No. Symbol Name Data range Factory set value**

<table>
<thead>
<tr>
<th>No.</th>
<th>Symbol</th>
<th>Name</th>
<th>Data range</th>
<th>Factory set value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>4</td>
<td>Sn03</td>
<td>Time signal 4</td>
<td>0 to 15.0 seconds</td>
<td>60</td>
</tr>
</tbody>
</table>

---

**Example of Memory Register Description**

- **No. Symbol Name Data range Factory set value**

<table>
<thead>
<tr>
<th>No.</th>
<th>Symbol</th>
<th>Name</th>
<th>Data range</th>
<th>Factory set value</th>
</tr>
</thead>
<tbody>
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<td>Sn03</td>
<td>Time signal 4</td>
<td>0 to 15.0 seconds</td>
<td>60</td>
</tr>
</tbody>
</table>
### 5. HOW TO CHANGE THE EVENT TYPE

The event-related parameters may include: Event type, Event hold action, differential gap, and Event timer. These parameters can be set in the Engineering mode. In the following explanation, the “Set value (SV)” means “Segment level SV” and “Set value (SV) in Fixed mode).

#### Changing Event 1 to Deviation hight/low (Using SV monitor value)

- **MVC** Monitor & Program setting mode
- **RES** Reset mode
- **A** Engineering mode

**Function Block No. 41:**

- **Event 1**
  - **Event function type:** Deviation H/L (SV monitor value)
  - **Event action:** ON
- **Event differential gap:** 100 to 200
- **Event timer:** 10 to 200 seconds

**Lines of Programming:**

1. **Event set value** (SV) will be set to the
2. **Event timer** will be activated.
3. **Event timer status** will be displayed.
4. **Event status** will be checked.

**Input value action:**

- **High**, **Low**, **High/Low**, **Band**

#### SV monitor value type and Segment level type

**SV monitor value type and Segment level type** are available for Deviation actions and set value actions.

- **SV monitor value type**
  - The Event set value is set to the SV monitor value
  - The only event action is set to the deviation value (SV) before the deviation set point.

- **Segment level type**
  - The Event set value is set to the SV monitor value (SV) before the deviation set point.

**Example:** When the event type is a deviation high.

- **Program control mode (RUN)**
- **Event set value** is set to the
- **Event timer** is activated.

#### Description of event hold action

**Hold action**

- When the following condition is met, the Hold action describes an event function that disrupts the measured value (PV) from the event state.
- When the measured value (PV) falls outside the event value (SV), the HLD action is released.
- When the measured value (PV) falls back to a suitable level, the Hold action is executed.
- **Event output OFF**
- **Event output ON**

**Hold timer** is also activated for the following reasons:

- When the event output is turned on and power is turned on
- When the instrument is activated for the first time
- When the instrument is activated from the Program control mode (RUN)
- When the instrument is activated from the Program control mode (RES, Program control mode) while the Event timer is being activated
- **Cancelation of Event value**

**Set value (SV)**

- **Event set value (SV)**
- **Event set value (SV) in Fixed mode)**

**Event value (PV)**

- **Event value (PV)**
- **Event value (PV) in Fixed mode)**

**Event differential gap**

- **Event differential gap**
- **Event differential gap in Fixed mode)**

**Event timer**

- **Event timer**
- **Event timer in Fixed mode)**

**Event status**

- **Event status**
- **Event status in Fixed mode)**

**Event hold action**

- **Event hold action**
- **Event hold action in Fixed mode)**

### Description of event differential gap

60 minutes is the differential range due to the measured value fluctuation around the start set value.

1. **Measurable range:** 
2. **Differentiable range:**
3. **Time delay:**
4. **Event output OFF**
5. **Event output ON**
6. **Event output OFF**

**Event output OFF**

- **Event output OFF**
- **Event output OFF**
- **Event output OFF**

**Event output ON**

- **Event output ON**
- **Event output ON**
- **Event output ON**

**Event time delay**

- **Event time delay**
- **Event time delay**
- **Event time delay**

**Event timer**

- **Event timer**
- **Event timer**
- **Event timer**

**Event status**

- **Event status**
- **Event status**
- **Event status**

**Set value (SV)**

- **Set value (SV)**
- **Set value (SV)**
- **Set value (SV)**

**Event hold action**

- **Event hold action**
- **Event hold action**
- **Event hold action**

**Re-hold action**

- **Re-hold action** (When the measured value of the event is also controlled when the controlled value changes with the measured value that has already been set)
- **Re-hold action** (When the measured value of the event is also controlled when the controlled value changes with the measured value that has already been set)
- **Re-hold action** (When the measured value of the event is also controlled when the controlled value changes with the measured value that has already been set)

**Manipulated output value action**

- **Manipulated output value action** (High, Low, High/Low, Band)
- **Manipulated output value action** (High, Low, High/Low, Band)
- **Manipulated output value action** (High, Low, High/Low, Band)