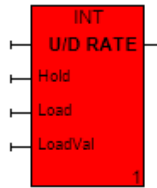


## Function Block 67      Rate-of-Change Controller

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### Function Description

The output of the function block will follow the input with rate-of-change limiting applied. The increase and decrease rates are individually selected. The Hold input allows the output to be held at its current value. The output value can also be forced to the value present at the Load Val input by asserting the Load input. The Load input has priority over the Hold input.



### Popup Parameters

- Inc Rate factor.  
This selection determines the maximum rate-of-increase of the output. If this rate factor is set =0 then no increase rate limit is applied.
- Dec Rate factor.  
This selection determines the maximum rate-of-decrease of the output. . If this rate factor is set =0 then no decrease rate limit is applied.
- Execution sequence number.

The rate is determined by the following:

$$\text{Rate/Second} = (\text{Rate factor})/\text{Cycle-time}$$

### Input/Output and Parameters

Type	Description	Data Type	Range
Input	Input signal	INT	16 Bit Signed integer
Input	Hold signal	Boolean	0, 1
Input	Load signal	Boolean	0, 1
Output	Output signal	INT	16 Bit Signed integer

### Application

For limiting the rate of change of integer signals. You can also make the output signal follow the input signal by connecting the input signal to the Load Val input and asserting the Load input.

### Notes

Both the Hold and Load input signals are of type Boolean and can therefore be inverted. Function block 67 must be executed in a Time task.

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