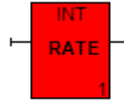


Function Block 66 Inc/Dec Rate Limiter

Function Description

The output signal value will follow that of the input but with a rate-of-change limitation applied. Both increase and decrease limits can be applied. If a rate factor of zero is selected for increase or decrease then no rate-of-change is applied to that particular direction change.



Popup Parameters

- Inc Rate factor: A value from 0 to 255 is accepted, where 0 means the output will follow the input when the latter increase.
- Dec Rate factor: A value from 0 to 255 is accepted, where 0 means the output will follow the input when the latter decrease.
- Execution sequence number.

Algorithm Description

The input signal is limited to an increase or decrease rate determined by:

$$Rate = \frac{1}{Tc * Rf}$$

Where:

Rate: Counts/Sec
Tc: Host task cycle time
Rf: Selected Rate factor

Input/Output and Parameters

Type	Description	Data Type	Range
Input	Input	INT	-32678....+32767
Output	Output	INT	-32678....+32767

Application

Prevent signal values from changing at to fast a rate.

Notes

This function block can only be hosted by a Time Task.