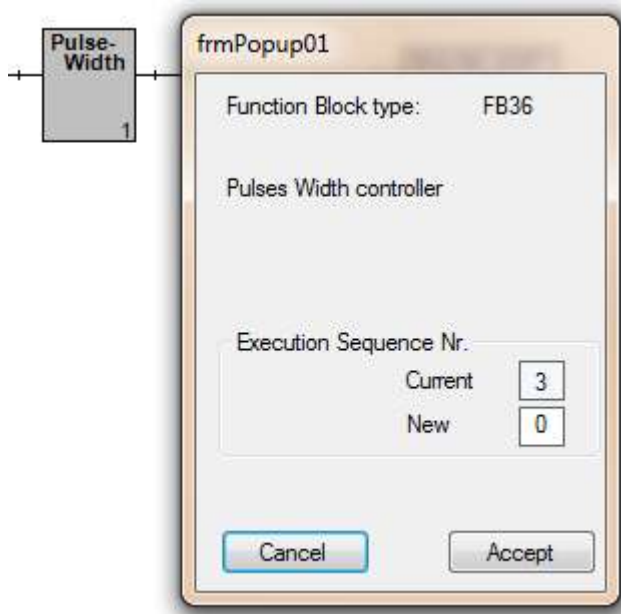


Function Block 36

Pulse Width Control

Function Description

This function supplies a pulse width modulated (PWM) logic output signals. The PWM period is determined by the execution rate of the function block, and the input value determines the pulse length (duty Cycle). The resolution is one in 255. At 0 input the output remain a 0 and at 255 input the output remains on.



Popup Parameters

- Execution sequence number.

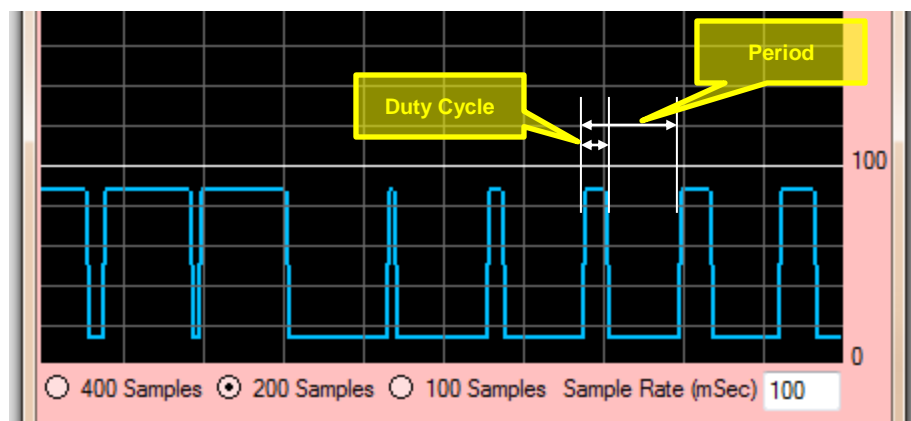
Description of operation

See figure below for operating details.

PWM period = $255 \times (\text{execution rate})$

Duty Cycle = $\text{Input} \times (\text{execution rate})$

This function block must be placed in a Time-Task of which the cycle time can be selected as any of 10, 20, 40, 50, 100, 200mSec.



Inputs and Output

Type	Description	Data Type	Range
Input	Input signal	INT	Internal limited to 0...255
Output	Output signal	BIT	0, 1

Application

Function Block 36 is useful when controlling for instance temperature where the controlling device can only be in one of two states, mostly on or off.

Notes:

The editor in VPS_P18 will only allow you to place this FB in a Time Task.
