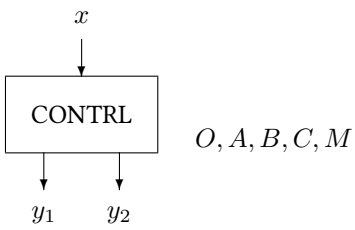
Block CONTRL

The CONTRL block simulates a switching control unit for two differnt devices.





Name	CONTRL
Function	se0014
Inputs	1
Outputs	2
Parameters	5
Strings	0
Group	D

Inputs

1	Any signal x

Outputs

1	Switch signal y_1
2	Switch signal y_2

Parameters

1	Switch level O
2	Switch level A
3	Switch level B
4	Switch level C
5	Switch level M

Strings

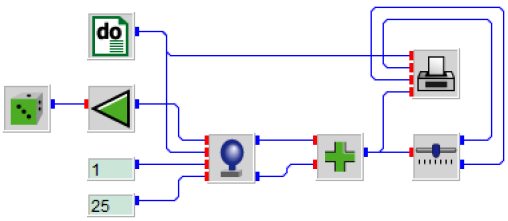
None

Description

At the beginning both output signals y_1 and y_2 are set to zero. Then the outputs are set according to the following table

switching logics					y_1	y_2
		x	$\leq$	O	0	0
O	$<$	x	$\leq$	A	1	0
working range						
B	$\leq$	x	$<$	C	1	1
C	$\leq$	x	$<$	M	0	1
M	$\leq$	x			0	0

contrl.vseit



The switch levels $O = 0.05, A = 0.1, B = 1.0, C = 1.2, M = 1.9$ are used to control two devices like an elektrolysis and a fuel cell. The example is a slight adaption of the example for the BALON block.

The PLOT block displays the contents of the balloon and the two control signals. As can be seen there is a small range where both devices could work in parallel.

