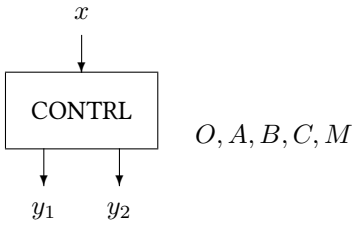


Block CONTRL

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

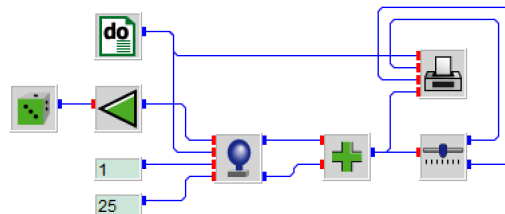
- 1 Switch level O
- 2 Switch level A
- 3 Switch level B
- 4 Switch level C
- 5 Switch level M

Strings

None

contrl.vseit

switching logics			y_1	y_2
O	$x \leq$	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



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 electrolysis 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.

