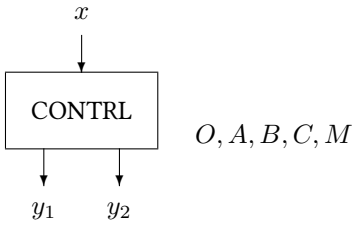


Block CONTRL

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

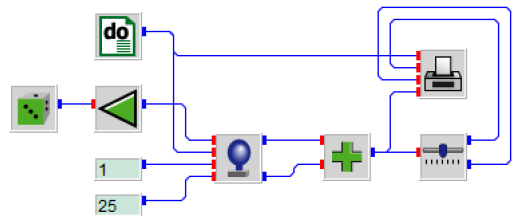
Strings

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
	$x \leq O$	O		0	0
O	$< x \leq A$	A		1	0
working range					
B	$\leq x < C$	C		1	1
C	$\leq x < M$	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 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.

