

Truth is a logic gate Rack Extension for Propellerhead Reason 6.5+.

Truth contains 5 separate 2-input logic gates with 10 different logic operators per gate.

TRUTH - FRONT PANEL



TEST

Method of testing input

>0 - True if signal is >0 (useful for

RISING - True if signal is rising (especially interesting with envelopes and LFOs)

OUT

Output when logic test is TRUE. When logic test is FALSE, output is 0

BIN - Binary - output is 0 or 1

DIFF - Difference - output is the difference between A & B in absolute value

MAX - Maximum - output is the greater of A & B

MIN - Minimum - output is the lesser of A & B

LAMPS

I - Input, **T** - Test, **R** - Result, **O** - Output. Green = +CV, Off = 0, Red = -CV

LOGIC OPERATORS

Selectable by the up/down arrows or by CV input on rear panel. Inputs and Outputs are either TRUE (1) or FALSE (0)

AND			OR			NAND			NOR			XOR			XNOR		
INPUT	OUTPUT		INPUT	OUTPUT		INPUT	OUTPUT		INPUT	OUTPUT		INPUT	OUTPUT		INPUT	OUTPUT	
A	B	A AND B	A	B	A OR B	A	B	A NAND B	A	B	A NOR B	A	B	A XOR B	A	B	A XNOR B
0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
0	1	0	0	1	1	0	1	1	0	1	0	0	1	1	0	1	0
1	0	0	1	0	1	1	0	1	1	0	0	1	0	1	1	0	0
1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1

A			NOT A			B			NOT B		
INPUT	OUTPUT		INPUT	OUTPUT		INPUT	OUTPUT		INPUT	OUTPUT	
A	B	A	A	B	NOT A	A	B	B	A	B	NOT B
0	0	0	0	0	1	0	0	0	0	0	1
0	1	0	0	1	1	0	1	1	0	1	0
1	0	1	1	0	0	1	0	0	1	0	1
1	1	1	1	1	0	1	1	1	1	1	0

TRUTH - BACK PANEL



A/B INPUT

Input signals to be tested

KNOB - Adjusts the level of incoming signal

OPERATOR

CV input to select LOGIC OPERATOR

KNOB - Adjusts the level of incoming signal

OUTPUT

Output as per OUT on Front Panel

ADDITIONAL RESOURCES

For Reason example files, audio, and other info, please see:

thechronologists.com/truth

For concise information about logic gates:

en.wikipedia.org/wiki/Logic_gate