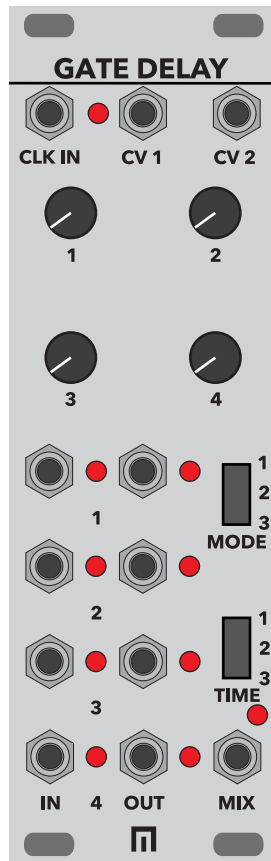


QUAD GATE DELAY MANUAL V1



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SPECIFICATIONS

FORMAT:
EURORACK

DIMENSIONS:
8HP, 23mm deep

MAX CURRENT:
+12V: 100mA
-12V: 20mA



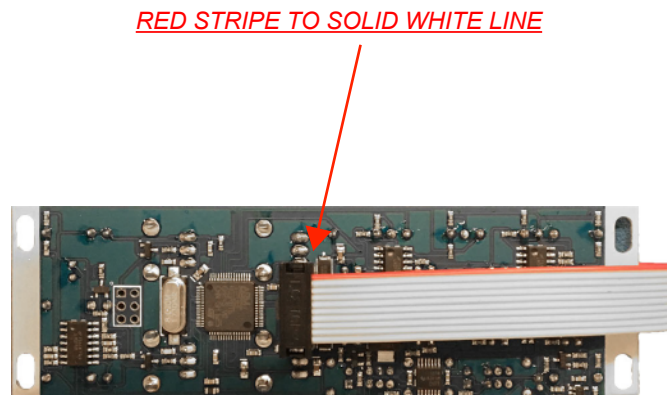
INSTALLATION

Remove module from packaging.

Power down your modular synthesizer and disconnect the power cable from the wall outlet.

Attach the included power cable to the module's power connector and connect the other end to the power distribution bus in your EuroRack synthesizer case. Match the red stripe of the cable to the solid white line on your Voltage Block.

Position the module on the mounting rails in your EuroRack case and screw down mounting screws. Power up! If your case does not turn on properly then you have installed the module incorrectly. Simply power down and make sure to follow the diagram when reconnecting the module.





DESCRIPTION

The Quad Gate Delay is a 4 channel tempo-synced rhythm generator and logic delay. There are 3 switchable time modes: milliseconds, tempo synced (unquantized), and tempo synced (quantized) with additional manual control over each mode as well as CV inputs over channels 1 & 2 (3 & 4 are fixed). The first mode allows for up to 1 second of delay per channel. Tempo synced (unquantized) allows for up to a bar of delay based on the incoming clock. Tempo synced (quantized) mode allows for up to a bar of delay quantized to 1/16 divisions. There are 3 normalling modes. In the first mode all inputs only trigger their own channels. In the second mode the first input will trigger all channels at the same time which allows for multiple taps off of a single trigger. The third mode sends the delay output from the current channel into the next channel's input. The mix output combines all 4 channels and sends a short pulse any time one of the outputs goes high.

Features include:

4-Channels of delayed outputs (+ inputs on each channel)

2 CV inputs for adjusting time of channels 1 and 2. Channels 3 and 4 are fixed. In the first mode all inputs only trigger their own channels. In the second mode the first input will trigger all channels at the same time which allows for multiple taps off of a single trigger. The third mode sends the delay output from the current channel into the next channel's input

Clock input

3 Time mode settings with manual control: Milliseconds, Tempo Synced (unquantized) and Tempo Synced (quantized)

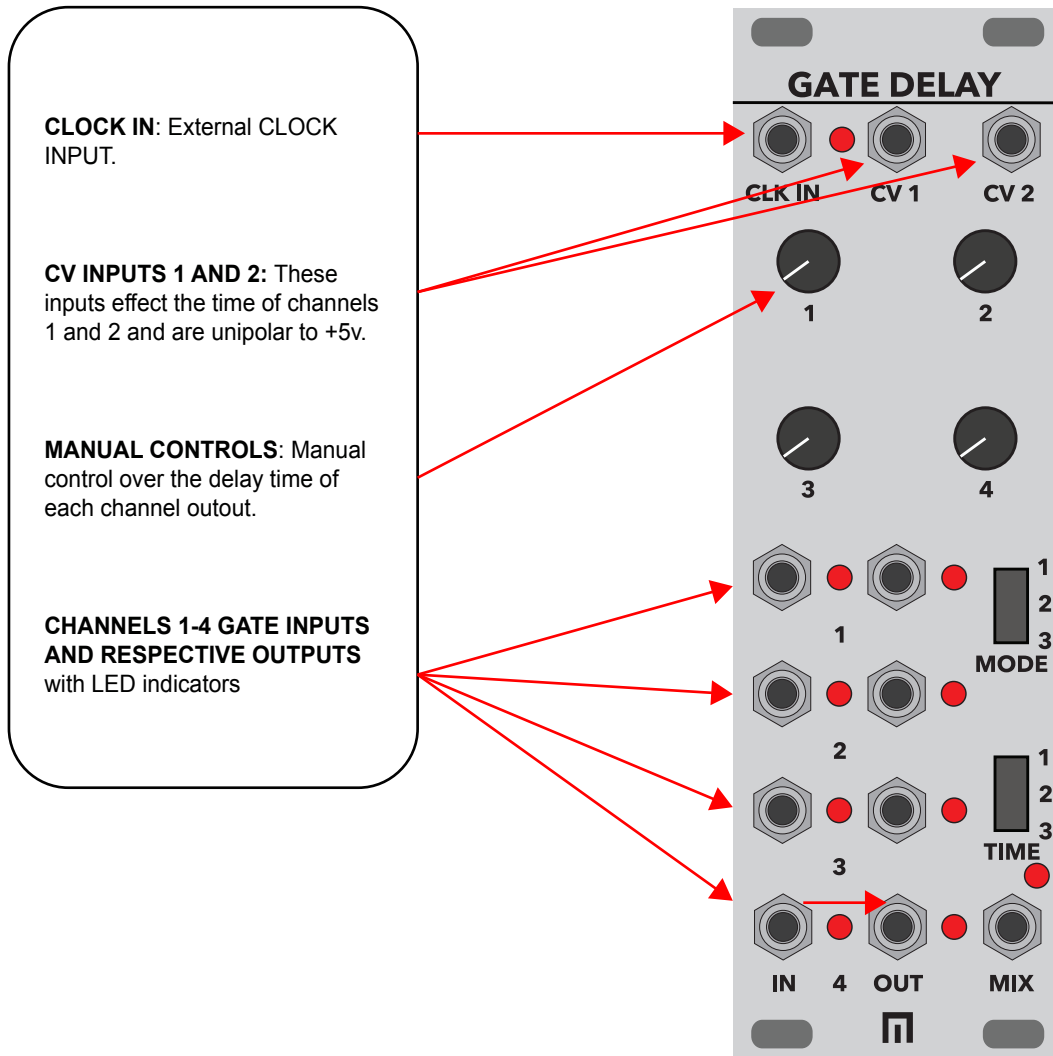
3 Normalling modes

Mix function (sum) for all 4 outputs

Pairs well with Varigate 4 and Varigate 8 as an “expander” module

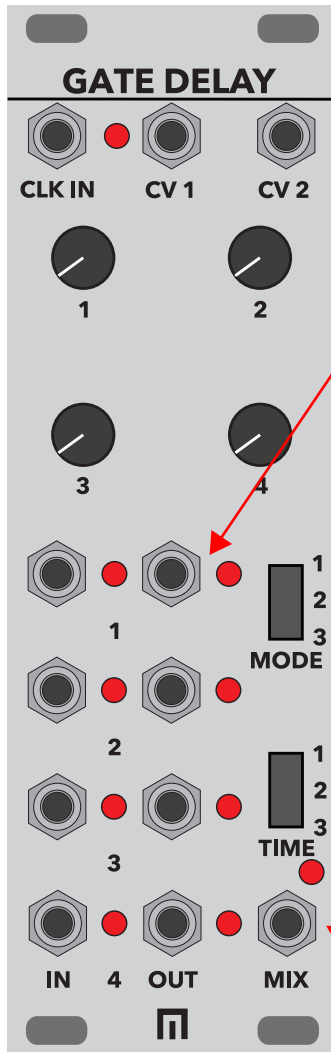


OVERVIEW 1





OVERVIEW 2



INDIVIDUAL GATE OUTPUTS

NORMALLING MODE SWITCH:

MODE 1. All inputs only trigger their own channels respectively. Then adjust the delay times for each output using manual knob controls.

MODE 2. One gate input on channel 1 will trigger all of the output channels at the same time which allows for multiple taps off of a single trigger. Then adjust the delay times for each output using manual knob controls.

MODE 3. Sends the delay output from the current channel into the next channel's input. Then adjust the delay times for each output using manual knob controls.

TIME MODE SWITCH:

TIME 1. Milliseconds

TIME 2. Tempo Synced
(unquantized delays)

TIME 3. Tempo Synced
(quantized delays)

MIX OUTPUT w/ LED:

combines all 4 channels and sends a short pulse any time one of the outputs goes high. The LED above this jack will blink with each pulse.



PATCH EXAMPLE

GATE DELAY

CLK IN CV 1 CV 2

1 2

3 4

1 2 3
MODE

1 2 3
TIME

IN 4 OUT MIX

Connect to your favorite clock (using the Malekko Varigate 8+ clock out as an example)

Insert a gate (using Varigate 4 or 8 for instance) into channel 1 and the outputs to a drum module with multiple gate inputs. Set the MODE switch to 3 for cascading delayed outputs of gate signals. Switch TIME to MODE 3 to create a quantized rhythmic pattern.

Insert CV (from the Malekko AD/LFO Module as an example) to modulate the TIME of input 1 to create interesting continuous changes to the cascading gate outputs.



WARRANTY

This product is covered by the Malekko Heavy Industry warranty, for one year following the date of purchase. This warranty covers any defect in the manufacturing of this product. This warranty does not cover any damage or malfunction caused by incorrect use – such as, but not limited to, power cables connected backwards, excessive voltage levels, or exposure to extreme temperature or moisture levels. The warranty covers replacement or repair, as decided by Malekko Heavy Industry. Please visit our website <https://malekkoheavyindustry.com> to obtain full warranty information and to register your product for coverage.