

Rnd



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Description

Rnd is a random voltage generator and random gate source with an internal clock.

The quantized and smooth outputs are completely independent, and each feature an attenuator to fine tune the output voltage between 0V and 10V. This allows for a musically useful range to be defined. When externally clocked, random gates erupt from the gate output.

Great for modulation and chaotic rhythmic events, Rnd is a universal solution for adding unpredictability to your system.

- Two unique random voltage algorithms
- Wide 0-10V output range
- Dedicated attenuators for each output
- Steady clock or random gate outputs
- Skiff friendly

Installation

To install, locate 2HP of space in your Eurorack case and confirm the positive 12 volts and negative 12 volts sides of the power distribution lines. Plug the connector into the power distribution board of your case, keeping in mind that the red band corresponds to negative 12 volts. In most systems, the negative 12 volt supply line is at the bottom. The power cable should be connected to the module with the red band facing the front of the module.

Specifications

- Size: 2HP
- Depth 42mm
- Current Consumption:
 - +12V: 48mA
 - -12V: 6mA

Diagram



Functional Overview

1. Clock

1a. Int / Ext Switch

Sets whether the module is running on an internal or external clock source.

When set to the left, the module is set to internal.

When set to the right, the module is set to external.

1b. Clock Input

When set to internal, this is a CV control for the internal clock rate.

When set to external, this is a clock input.

2. Rate Knob

Controls the rate of the internal clock when the Int/Ext Switch is set to internal.

Controls the probability for random gate outputs when the Int/Ext Switch is set to external.

Controls the rate of change for the Smooth Output.

When far left, the controls will be set at their slowest.

When far right, the controls will be set at their fastest.

3. Gate Output

When the Int/Ext switch is set to internal, this output emits a 50% duty cycle clock signal at the rate of the internal clock rate.

When the Int/Ext switch is set to external, this output emits random gates with a 50% chance of being high or low at any given moment. The rate of change is controlled by the rate Knob.

4. Smooth

4a. Smooth Attenuator

Output level control for the Smooth Output Range: 0V to 10V.

4b. Smooth Output

Outputs a constantly moving random voltage. Range: 0V to 10V.

The random voltage's rate of change is set with the Rate Knob.

5. Quant

5a. Quant Attenuator

Output level control for the Quant Output.

5b. Quant Output

Outputs a new random voltage at every clock pulse.