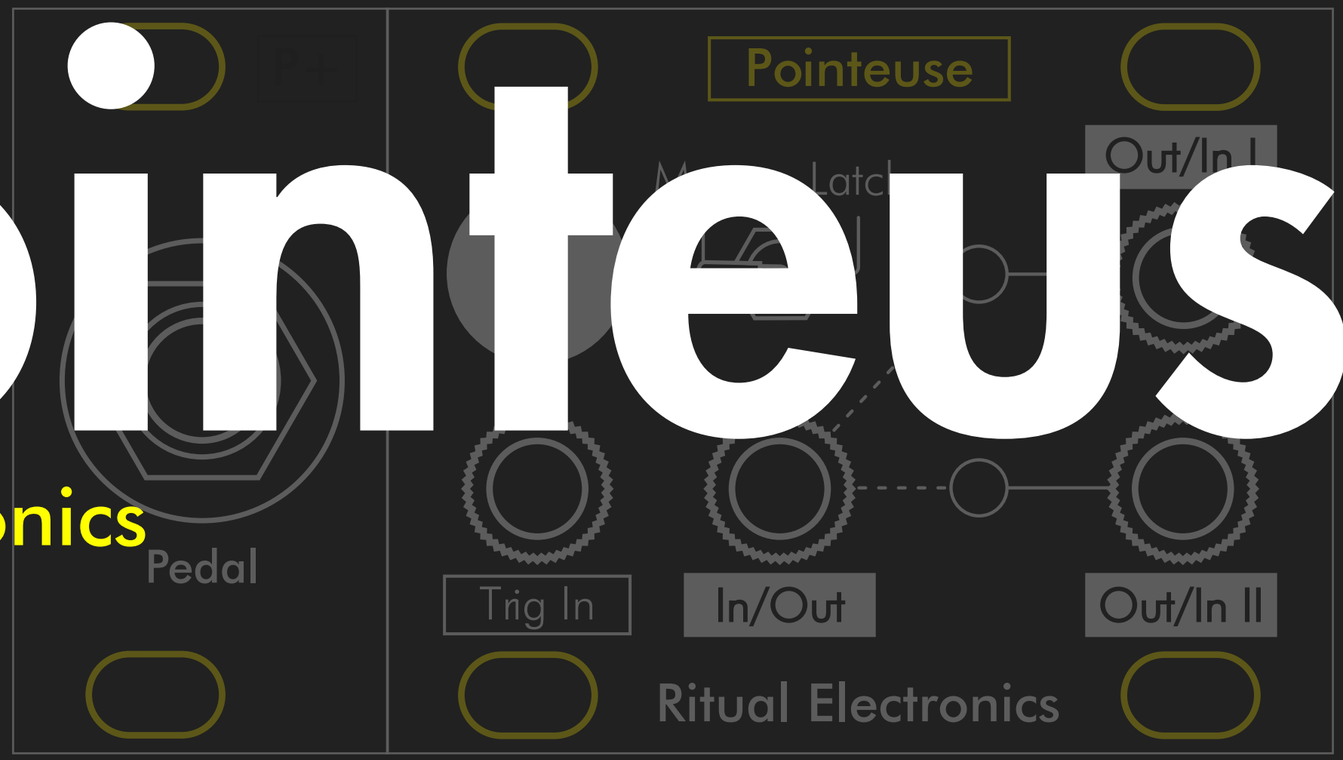
Pointeuse

Ritual Electronics



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Pointeuse

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"Her time card said she worked till 3A.M."

Pointeuse

Thank you for purchasing Ritual Electronics Pointeuse.

Your module has been assembled with care in our studio in Marseille, France.

You can find your module on Modulargrid:
https://www.modulargrid.net/e/ritual-electronics-pointeuse

For any remarks and informations, contact us at:
contact@ritualelectronics.com

For video demos and patch ideas check:
https://www.youtube.com/ritualelectronics
https://www.instagram.com/ritualelectronics

Limited warranty

Ritual Electronics warrants this product to be free of defects in materials or construction for a period of one year from the date of purchase.

Malfunction resulting from wrong power supply voltages, backwards or reversed eurorack bus board cable connection, abuse of the product or any other causes determined by Ritual Electronics to be the fault of the user are not covered by this warranty, and normal service rates will apply.

During the warranty period, any defective products will be repaired or replaced, at the option of Ritual Electronics, on a return-to-Ritual Electronics basis with the customer paying the transit cost to Ritual Electronics. The return of your module is on us.

Ritual Electronics implies and accepts no responsibility for harm to person or apparatus caused through operation of this product.

Installation

Always turn your eurorack case off before plugging or unplugging a module.

Do not touch any electrical terminals when attaching any Eurorack bus board cable.

As the 1U series does not have a shrouded header, so remember:

RED STRIPE DOWN

Ritual Electronics Pointeuse requires:

- 20mA on +12V
- 11mA on -12V
- 0mA on +5V

You will need 10HP of free space in your Eurorack case to install Pointeuse and 4HP to instal its footswitch expander. The module is 35mm deep.

Pointeuse is a 1U module, you will need a 1U rack space, either Intellijel format or Pulplogic format.

Overview

Trig, Gate, Mute, Switch Everything!

Pointeuse is a CV controlled bidirectional analog switch that can be used as a momentary footswitch adapter for Eurorack.

Pointeuse has two states. It either connects In/Out to Out/In I or to Out/In II. You can change its state by pressing a footswitch (via the included adapter expander), the backlit button or by sending a voltage signal into the Trig In input making the module highly interactive and controllable.

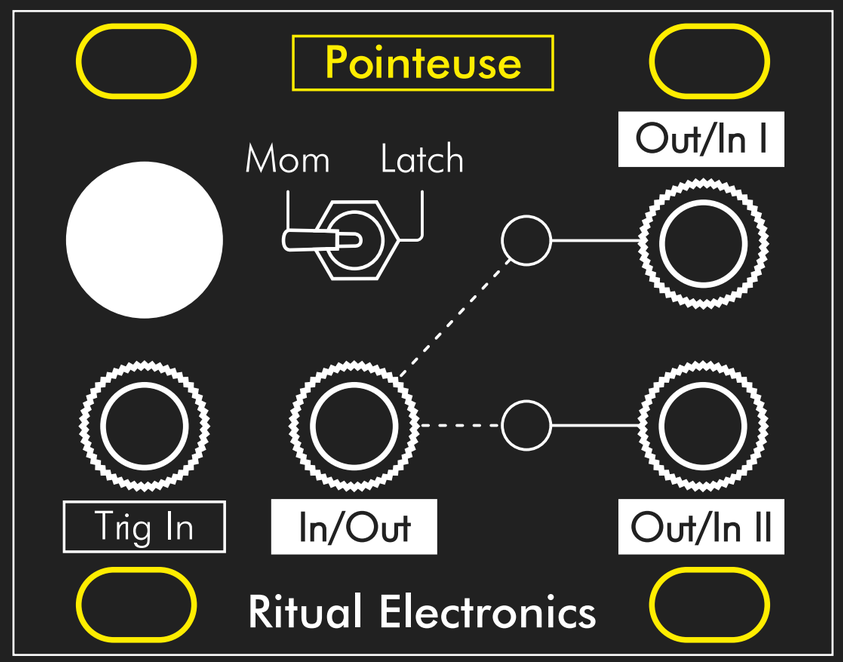
Pointeuse behavior can be momentary (as long as the button is pressed for example) or latching (the signal switches each time the button is pressed).

The switch has a true bidirectionnal behavior (2:1 or 1:2).

If no jack is connected to In/Out, a 5V signal will be present alternatively at Out/In I and Out/In II.

Pointeuse controls

Mom | Latch switch
Chose between momentary or latching behavior



Backlit button
Manual control of the switch and LED indication

Trig In
CV control for the switch
Built in comparator on the input triggering at 2.5V

In/Out
Common bidirectional jack
It is either the common output (2 to 1) or the common input (1 to 2) of the switch.
This jack is normalled to +5V if no connection is present.

Out/In I
Bidirectional jack I
It is either the first input (2 to 1) or first output (1 to 2) of the switch

Out/In II
Bidirectional jack II
It is either the second input (2 to 1) or second output (1 to 2) of the switch

Pedal & expander

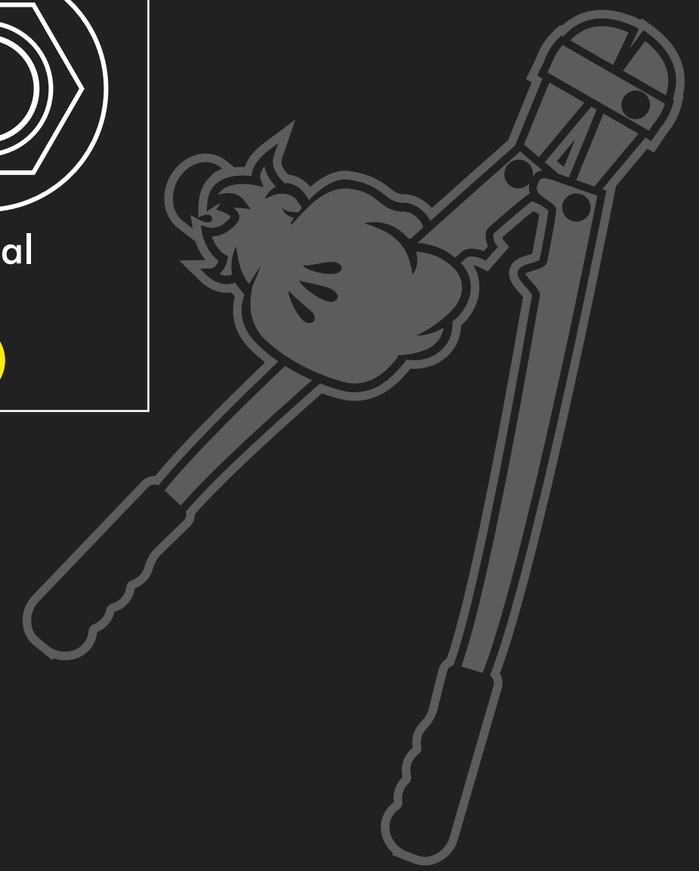
Pointeuse includes a 4HP expander to connect a footswitch pedal as another way to interact with the switch.

The expander connects to the back of the module with the included cable. It connects to the **FOOT** 2-pin header on Pointeuse and to the **FOOT** 2-pin header on the expander. The cable is made in such way you can not get the orientation wrong.

Pointeuse can be used as a crude footswitch adapter. Connect the expander to the module, select between momentary or latching behavior and use one of the Out/In as your output. When the pedal is pressed a 5V gate is generated at either Out/In I or Out/In II.

You can chose between “ON when pressed” or “OFF when pressed” by chosing which Out/In jacks you use. This depends on the pedal you are using and its polarity.
The LED on the left side of the jacks will help you finding out.

Pointeuse should be compatible with virtually all footswitch pedals available.



Momentary | latching

Mom(entary)

When switched to Mom, Pointeuse will change state for the duration of your interaction with it (as long as you press the pedal, the button, or as long as there is a >2.5V CV at the Trig In). When depressed, Pointeuse will go back to its previous state.

Latch(ing)

When switched to Latch, Pointeuse will change state once the pedal/button is pressed or when the Trig In is >2.5V and hold its state until the next pedal/button press or CV high.

Truth table

As you have three ways to interact with the module, we wanted to add an extra layer of depth to the module by adding a logic layer in there.

The first logic layer takes the Pedal and the Button as inputs. They are XORed together. Meaning if they are both ON at the same time the result will be OFF.

The result of the Pedal against Button logic is then XORed again with the CV input. Once again, if both are ON, the result will be OFF.

For those of you familiar with logic here is the truth table.

Pedal	Button	CV	Output
0	0	0	0
0	0	1	1
1	0	0	1
1	0	1	0
0	1	0	1
0	1	1	0
1	1	0	0
1	1	1	1

Chaining

Two or more Pointeuse can be chained together.

By doing so you can switch them all at once and still have independent control over the slaves.

To connect them together, use the same cable as the expander, plug it to the **MASTER** header on the back of your first Pointeuse and to **SLAVE** header on your second Pointeuse. Repeat the same operation for each Pointeuse down the line.