# ADSR

## Description

ADSR is a four-stage linear envelope with two expressive ranges. Each stage can be modified independently allowing for the creation of complex, multi-segment envelopes. Great for modulating filters, VCAs, and oscillators.

- 4 independent stages
- Wide voltage output at 0V – 10V
- 2 expressive ranges
- Easy to use interface

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## Installation

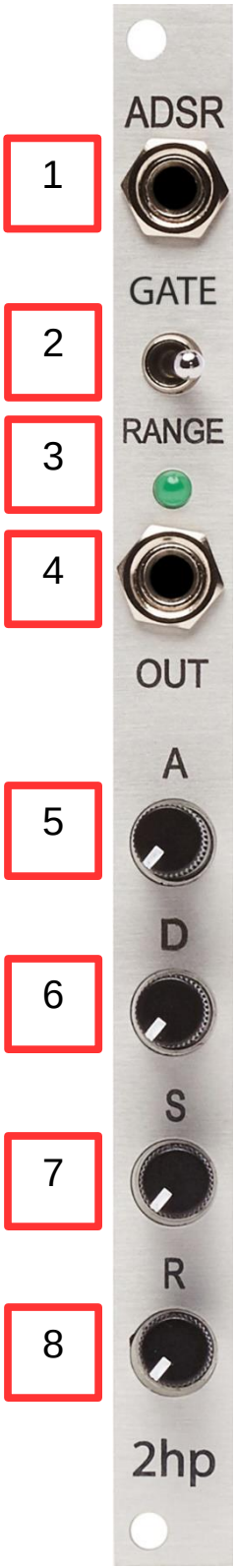
To install, locate 2 HP of space in your Eurorack case and confirm the positive 12 volts and negative 12 volts sides of the power distribution lines. Plug the connector into the power distribution board of your case, keeping in mind that the red band corresponds to negative 12 volts. In most systems,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

## Specifications

**Format:** 2 HP Eurorack module

**Depth:** 47mm (Skiff Friendly)

**Max Current:** +12V = 24mA
-12V = 7mA


ADSR
1
GATE
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RANGE
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OUT
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2hp

## General Functions Overview

**1. GATE:**
Gate input

An envelope will emit from OUT when a gate signal is received at the GATE input

Threshold: 2.5V

**2. RANGE:**
Toggle that will switch between two ranges

If the toggle is up, the slow range will be selected
If the toggle is down, the fast range will be selected

Slow Range: 0.54ms – 5 sec per stage
Fast Range: 5ms – 30 sec per stage

**3. LED:**
LED indication of the envelope emitted from OUT

**4. OUT:**
Envelope output

Range: 0V – 10V

**5. ATTACK:**
Sets the attack time of the envelope

If the knob is far left, the attack time will be as fast as possible based on the currently selected range
If the knob is far right, the attack time will be as slow as possible based on the currently selected range

**6. DECAY:**
Sets the decay time of the envelope

If the knob is far left, the decay time will be as fast as possible based on the currently selected range
If the knob is far right, the decay time will be as slow as possible based on the currently selected range

**7. SUSTAIN:**
Sets the sustain level of the envelope

If the knob is far left, the sustain level will be as low as possible
If the knob is far right, the sustain level will as high as possible

**8. RELEASE:**
Sets the release time of the envelope

If the knob is far left, the release time will be as fast as possible based on the currently selected range
If the knob is far right, the release time will be as slow as possible based on the currently selected range