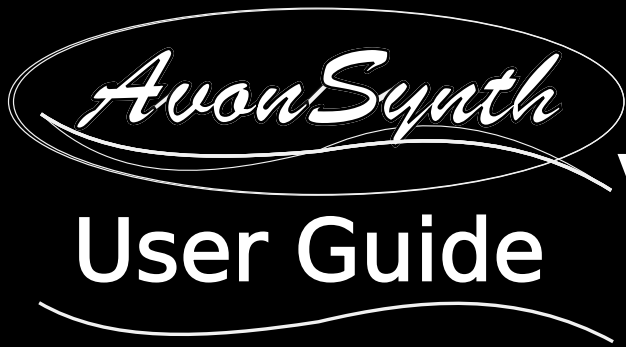


The



User Guide

AVS-ADSR-2 VC Envelope Generator



Thank you for purchasing from AvonSynth

Congratulations on your purchase of a brand new AvonSynth AVS-ADSR-2 VC-Envelope Generator Eurorack Module. We trust that it will both serve and inspire you as you create beautiful music with it for years to come.

In order to get the most out of your module, please ensure that you read this User Guide in its entirety so that you fully understand all of its functionality, and that you follow all necessary safety directions during use.

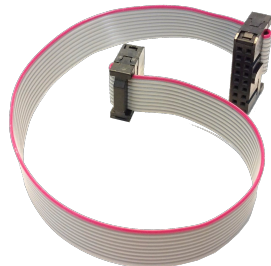
Included in the Box

1 x VC-ADSR Module

1 x 10 pin to 16 pin flat-cable power cord

4 x M3 Mounting Screws

4 x Nylon Washers

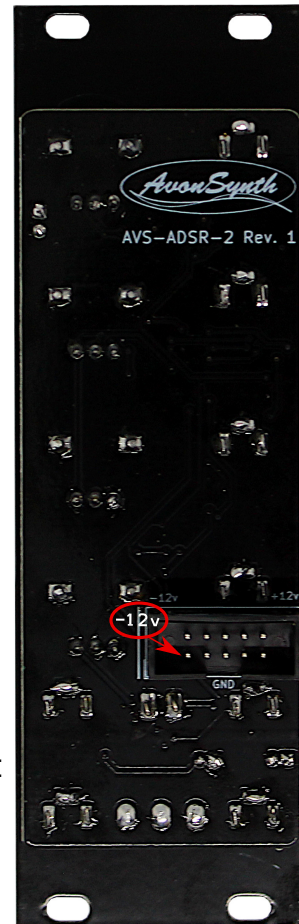


Installation

Step 1: Power your system off. Place the module in your Eurorack-compatible rack in any convenient position. Affix the module to your rails using the included mounting screws and nylon washers. Neglecting to use these washers may result in unnecessary marking of the unit.

Step 2: Triple check the polarity of the power connector before connecting the power cord to your power supply. Ensure that the -12v line marked on the back of the module connects to the same end of the flat-cable that also connects to the -12v line on your power supply. While AvonSynth modules use shrouded connectors that make this process safer and more reliable, some systems do not conform to this polarity standard, so careful checking is **always** necessary. Connecting the module with incorrect polarity can result in irreversable damage done to the module which cannot be covered by warranty.

Step 3: Power up your system and start patching!



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AVS-ADSR-2

VC Envelope Generator

Features & Specifications

- Fully Analogue Voltage-Controlled Envelope Generator
- 8 HP wide (40.3mm), 20mm deep
- Independent Attack, Decay, Sustain, and Release controls
- Independent CV control of all four parameters
- Current consumption: +12V 32ma, -12V 34ma
- Attack times from 70 **microseconds** to 12 seconds
- Linked gate input and manual gate button
- Simultaneous standard and inverse envelope outputs
- Positive output swing 0 to 10v, inverted swing 0 to -10v
- Fast/Slow switch to increase envelope's usable range
- Separate Trigger input to retrigger the envelope mid-cycle

Description of Functionality

LED Indicator

The brightness of this LED light is proportional to the current level of the non-inverted output.

CV Inputs

These four CV Inputs each control their attached parameter via input voltage, which can be positive or negative. These voltages are added to the currently set position of the respective knob.

Trigger Input

A pulse of voltage sent to the Trig input restarts the envelope from the attack stage as long as a gate is already being applied.

Gate Input and Pushbutton

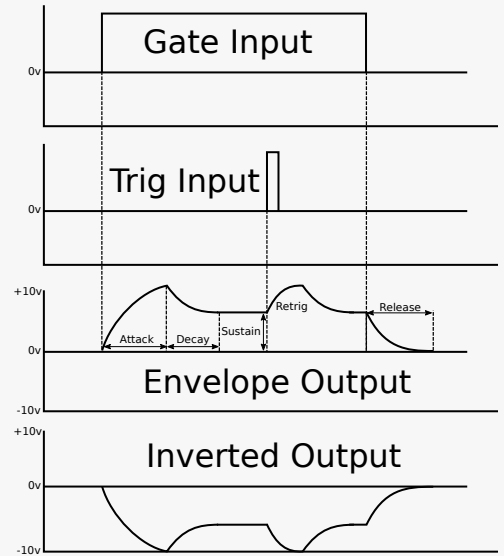
The rising edge of a standard 0-10v gate signal starts the envelope at its Attack stage, while a falling edge begins the release stage of the envelope. The red push-button provides manual control of gating, and can be utilised whether a gate signal is connected or not.

Fast/Slow Switch

In the fast position, the range of all of the envelope parameters is made faster, for tight, snappy envelopes. In the slow position, the ranges lean towards slower envelopes.



Envelope Behaviour



Attack

Controls the length of the first stage of the envelope. Dictates the amount of time taken for the output CV to reach its peak after a rising gate is received.

Decay

Controls the length of the second stage of the envelope. Dictates the amount of time taken for the output CV to reach the sustain level from the peak after the attack stage is completed.

Sustain

Sets the output CV level that is held after the Attack and Decay sections have been completed, and while the Gate signal remains high.

Release

Controls the length of the final stage of the envelope. Dictates the amount of time taken for the output CV to reach zero from the sustain level after the Gate signal has been lowered.

Envelope Outputs

Provides a 0 to 10v range (bottom) or 0 to -10v range (top) CV output which evolves over time according to the Attack, Decay, Sustain, and Release parameters.

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AVS-ADSR-2

VC Envelope
Generator

Safety Precautions

Please use this module in accordance with the following safety guidelines in order to maximize the life of the module and ensure warranty from AvonSynth.



Keep water and other conductive liquids and materials away from this module. It is not water proof, or even water resistant. Exposure to these can cause short-circuits that can render the equipment unusable.



Be sure to keep this equipment in an environment with an ambient temperature above -20°C and below $+50^{\circ}\text{C}$. Excessively hot or cold temperatures can be damaging to the electronic circuits used.



Modules with exposed circuit-boards are delicate. Take the utmost care when handling and transporting this equipment, making sure not to subject it to excessive forces. Ensure that the module is installed correctly while being transported and that the original packing materials are used when sending the module anywhere by post.

Warranty & Support

This product is covered by AvonSynth's warranty for one year from the manufacturing date. Within this timeframe, any manufacturing defect will be repaired or replaced by AvonSynth. Damage caused to the product due to not following the safety precautions above, unauthorized modification of the hardware, or misuse such as subjecting the unit to reverse or excessive voltages will void this warranty.

If you have any concerns about your AvonSynth hardware, please get in touch via info@AvonSynth.com to discuss any issues. We will do our best to assist you in getting your hardware operating correctly, and if necessary, we will provide an RMA (Return Merchandise Authorization) to send back the unit for inspection. Any postal costs incurred in this process will be the responsibility of the customer. Please do not send back merchandise before receiving this authorization.