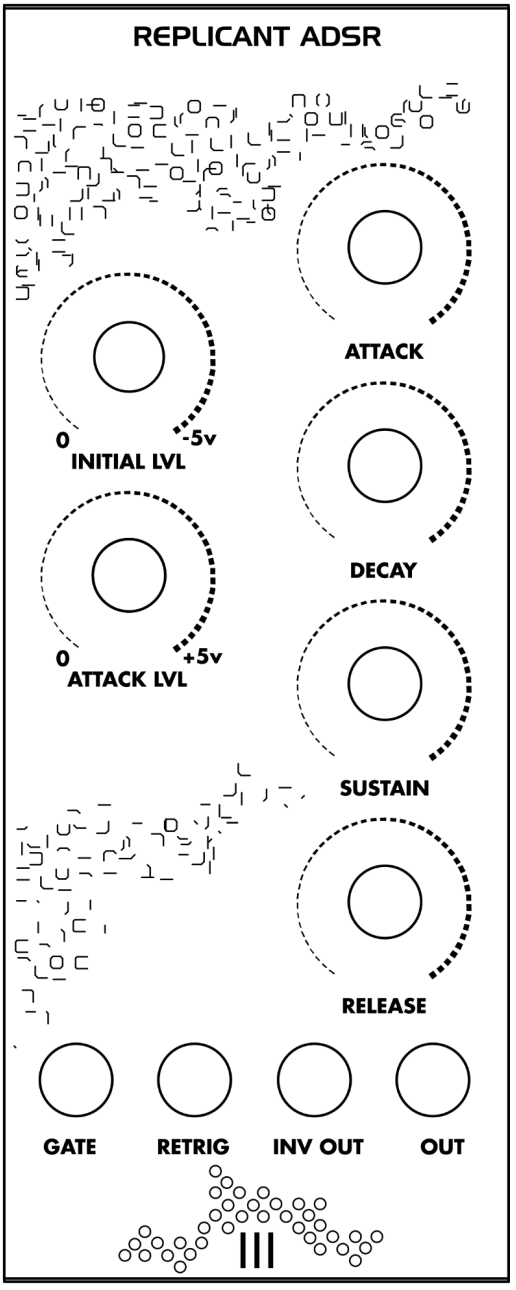
Tre Modular - Replicant ADSR User Manual



Thank you for choosing the Tre Modular - Replicant ADSR Eurorack module!

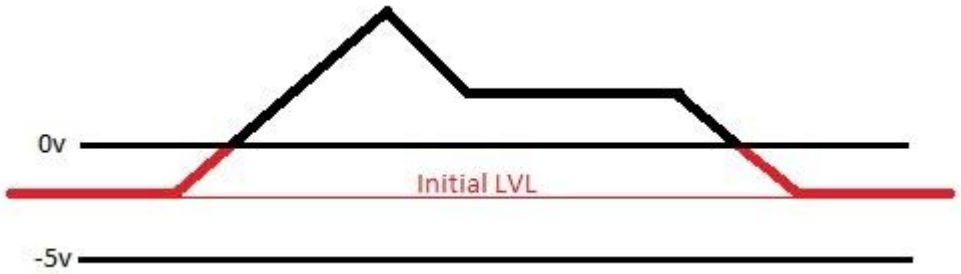
This guide will walk you through the features, and usage of the Replicant ADSR.

Replicant ADSR:

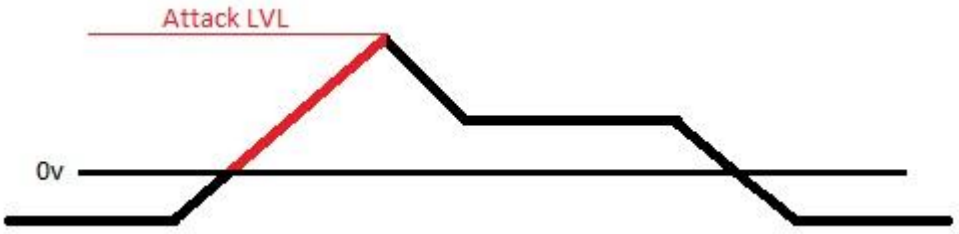
Replicant ADSR is an envelope generator inspired by Yamaha CS80 synthesizers envelope section. It has Initial lvl, Attack lvl controls and multi stage decay and release, same as the CS80. In addition to those things Replicant ADSR has sustain control, retrigger function and inverted output that was not present on the CS80 filter envelope.

Fetures:

Initial LVL - Initial level control sets the point where the envelope starts and ends. If usually envelopes start at 0v then Replicant ADSR can start anywhere from -5v to 0v. This allows you to precisely set how closed or open the module that you are controlling is in its initial state before and after the envelopes active stage.



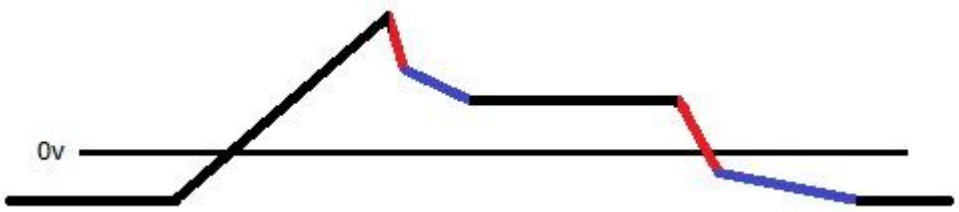
Attack LVL - Attack level sets the height of the attack stage. If attack control controls the time that it takes to reach the peak of the attack stage, then attack level sets the height of that peak that the attack stage has to reach before it goes into decay stage. You can set it anywhere from 0v to +5v.



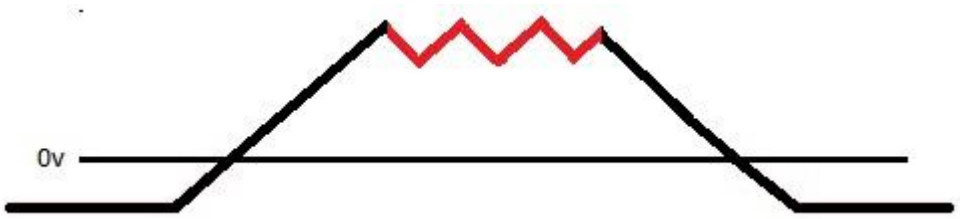
If sustain is set higher than the attack level. Then the attack will reach the attack level and go into decay stage. When usually decay goes down to sustain level, then in this case, since the attack ends lower than sustain level, it goes up and looks and sounds like another stage of an attack.

With a combination of Attack level and Initial level you get more control over how much the module that you are controlling opens and closes. You can precisely set starting and end points. In comparison to traditional envelopes where they start at 0v and you usually have to turn filter/VCA down, with this you usually leave it somewhere in the middle and use it as an offset to the control signal that comes from ADSR. On the envelope side you adjust the range that the envelope operates in with Initial level and Attack level controls.

Multi Stage D/R - Replicant ADSR, same as CS80 envelopes, has multi stage decay and release. It means that for a set amount of time it will drop faster and then start to drop slower. .



Retriger - If a signal is presented at Retrig input during decay and/or sustain phase, it will retrigger the attack stage from that point where the envelope has reached at that moment. Signal at Retrig input can be present during the rest of the envelopes stages and it won't affect nor attack nor release.



Specifications:

Module width: 10 HP

Module depth: 27mm

Power Consumption: 25mA at +12V / 28mA at -12V

ADR max/min lengths:

A: 16sec/20ms

D: 20sec/3ms

R: 25sec/3ms

Controls:

Attack: Sets the length of the attack stage.

Decay: Sets the length of the decay stage.

Sustain : Sets the sustain level.

Release: Sets the length of the release stage.

Initial LVL: Sets the start and end point of the envelope.

Attack LVL: Sets the height of the attack stage.

Inputs:

Gate: Gate signal input.

Retrig: Retriger signal input.

Outputs:

Out: Envelope output.

Inv Out: Inverted envelope output.

Installation:

Power off your Eurorack system.

Insert the module into an available slot.

Connect the power cable, ensuring correct polarity.

Power on your Eurorack system.

Enjoy!

Additional Information:

For any additional questions or support, please contact Tre Modular at support@tremodular.com .

Happy patching!