



## About

ENVF is an envelope follower with only 2HP. It will take an audio input and will output a DC output following the amplitude of the audio input. Ideal for driving VCAs, VCFs or the NUTONE. Very useful to creating sidechain effects.

## Specs

Module Width: 2 HP

Module Depth: 35mm

Power: +12V/-12V power supply (2x5 pin connector). The red stripe and the red mark must be on the same side.

Consumption: 14mA at +12V / 13mA at -12V

## Controls

### 1. Audio Input

Input connection of the envelope follower. The audio signal connected here will be transformed into an envelope.

### 2. Threshold Knob

The threshold control sets the level at which the envelope effect will be activated. Only when a level passes above the threshold the positive output of the module will send a signal. If the threshold level is set at say -10 dB, only signal peaks that extend above that level will activate the circuit. The rest of the time, there will not be any signal at the "OUT". The led will turn ON when audio is going through the threshold section.

Turning this control fully CCW (down) will set the threshold at the minimum position, so all the audio signals will activate the circuit. Turning it fully CW (up) will only activate the circuit with the louder levels. For example, if you have a drum loop with a bassdrum at -5dB and a shaker at a -35dB you can set the threshold knob so the envelope follower will output an envelope following only the bassdrum.

### 3. Gain Knob

It amplifies the audio signal to be converted into an envelope signal. A higher amplitude will result in a higher voltage envelope. The Gain control will affect how the threshold responds.

## 4. Slope Switch

It determines the resulting slope of the envelope. At the "Fast" position the attack and release will be short. This means that it will also transform quick changes of the audio signal into the resulting envelope. At the "Slow" position the attack and release will be longer. Only major changes in the audio signal will be converted into the envelope. The "Mid" position is the standard setting and the one used in the SPICE machine.

## 5. Envelope outputs

The "OUT" signal will output the converted envelope from the audio signal into a positive voltage. It goes from 0 to 10V. If there are no audio crossing the threshold point it will output 0 volts. The "INV" output is the inverted output of the envelope. It goes from 0 to -10V. At no volume it will also output 0 volts, but with a louder signal it will output values below 0. This output is very useful when using the unit as a sidechain control, so the negative envelope will turn down the gain on an VCA or cut down the frequency of a VCF.

## Credits

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