QUAD ENVELOPE QUICKSTART GUIDE

Quad Envelope includes 4 individual AHDSR envelope generators with individual outputs as well as a 16-step automation sequencer per channel. Hold the RECORD button and move the sliders for Attack, Hold, Decay, Sustain and Release to animate each of these settings for a given channel. Autosave in stand-alone mode, or save up to 16 presets of these settings using Varigate 4+ or up to 100 presets using Varigate 8+.

You can set each envelope to either Trigger, Gate, Loop or Gate/Loop. You can also set each individual envelope to either Fast, Slow or Tempo synced modes. Each automation sequencer can be set to either Forward, Reverse, Pendulum or Random.

The Quad Envelope allows for a multitude of dynamic possibilities for live performance and recording.

CLK IN:
An external CLOCK INPUT is required for the automated sequencer to run. Clock is also received from a Varigate 8+ or 4+ if connected to the same busboard.

ENVELOPE OUTPUT CHANNELS 1-4:
Connect your patch cables from these outputs to other module CV inputs to modulate them with the QUAD ENVELOPE. There are a total of 4 individual envelope/outputs.

RESET:
Gate input for resetting the sequencer to step 1.

GATE INPUTS:
Each envelope can be re-triggered/restarted with an individual gate (or cycle without a gate input).

FORWARD/REVERSE/PENDULUM/ RANDOM SWITCH:
Switch to change the direction of the automated sequencer.

LED BAR GRAPH:
Displays the sequence direction as well as sequencer/step position.

ENV PARAMETER SLIDERS:
Each of the 4 envelopes include their own set of parameters that can be adjusted with the sliders. Select envelope buttons 1-4 and then move the sliders to adjust ATTACK, HOLD, DECAY, SUSTAIN and RELEASE per envelope.
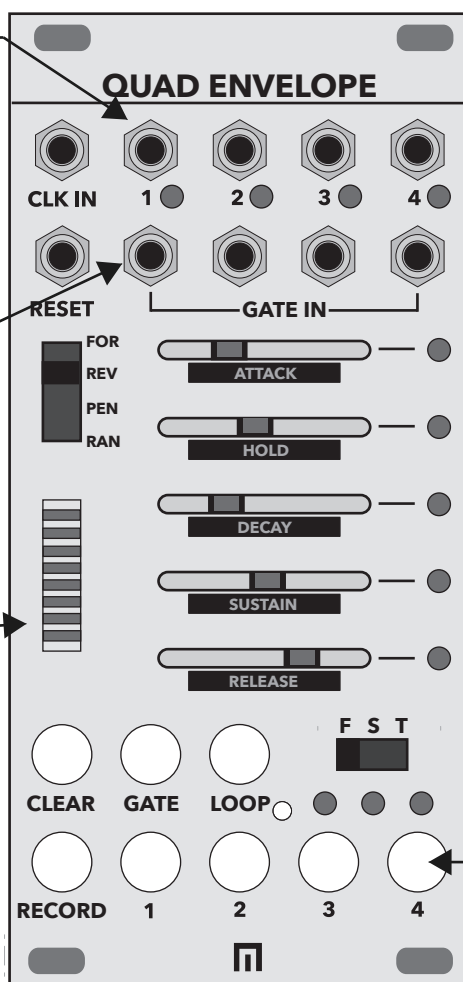**ATTACK:** Sets the time it takes for an envelope to reach peak level.
HOLD: Holds the voltage at its maximum value after the attack is done rising and before the decay starts falling, per envelope.
DECAY: Sets the amount of decay time to sustain level per envelope.
SUSTAIN: Sets the level of sustain per envelope.
RELEASE: Sets the time it takes for the envelope to reach zero level per envelope.

ENVELOPE 1-4 CHANNEL SELECT BUTTONS:
To select an envelope for parameter editing, press one of these buttons.

RECORD:
To record parameter automation to a sequence for an envelope, hold the RECORD button while you move the sliders. Once you've recorded automation for a given parameter the LED on that slider will be lit.

FAST/SLOW/TEMPO:
Set each envelope to FAST, SLOW, TEMPO. Quad Envelope will receive tempo data via busboard clock as well as from clock input.

GATE MODE:
To enter GATE mode, select an envelope button 1-4 and then the GATE button. This mode will play a standard AHDSR envelope when a trigger or gate input is patched.

LOOP MODE:
To enter LOOP mode, select an envelope button 1-4 and then the LOOP button. LOOP mode will loop envelopes without a trigger or gate. The AHSDR settings determine the speed of the loop.

GATE/LOOP MODE:
To enter GATE/LOOP mode, select an envelope button 1-4 and then the GATE and LOOP button. GATE/LOOP mode loops envelopes only when a gate is received.

CLEAR:
Holding CLEAR while moving sliders will clear existing automation recording for that specific control. Holding CLEAR while pressing a channel select button will clear all automation for that channel.

LINK MODE:
You can link envelope channels 2-4 to channel 1 by holding down channel button 1 while selecting 2-4. You will now see that when you press the channel 1 button, the buttons for the other channels that are linked will also be lit.

QUAD ENVELOPE

CLK IN 1 2 3 4

RESET GATE IN

FOR
REV
PEN
RAN

ATTACK
HOLD
DECAY
SUSTAIN
RELEASE

F S T

CLEAR GATE LOOP

RECORD 1 2 3 4

YOUR FIRST PATCH

QUAD ENVELOPE

1. Patch output 1 of the Quad Envelope to a module with CV input for modulation.

2. Patch a clock source into CLK IN and make sure you are receiving clock (you will see the LED bargraph moving indicating that the sequencer is active and you are receiving clock).

3. Patch a gate in from an external source to the GATE INPUT JACK #1.

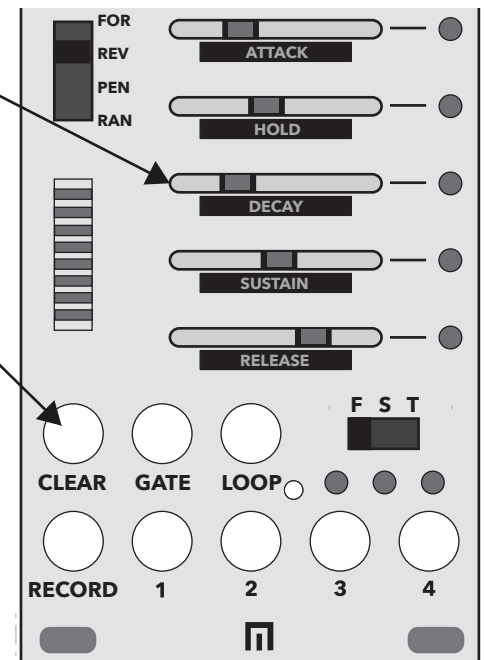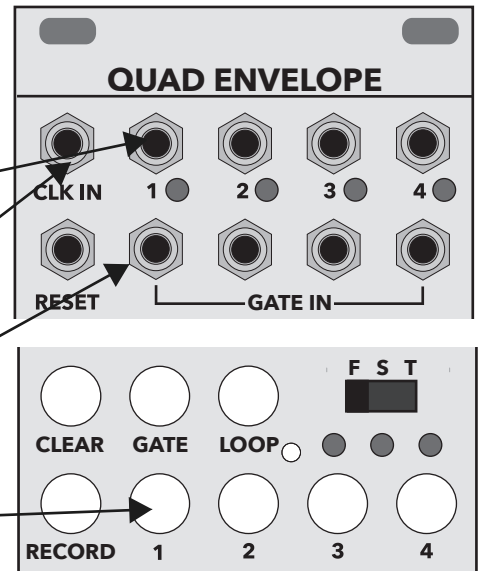4. Press envelope BUTTON 1

5. Set the speed (Fast or Slow).

6. Move the sliders for ATTACK, HOLD, DECAY, SUSTAIN and RELEASE to your liking. Or you can hold RECORD while moving the sliders to record slider movements to a sequence.

7. If you have recorded slider movements to a sequence, set the switch for the sequencer direction to your liking. You will now hear your recorded slider movements play back in the forward, reverse, pendulum or random direction.
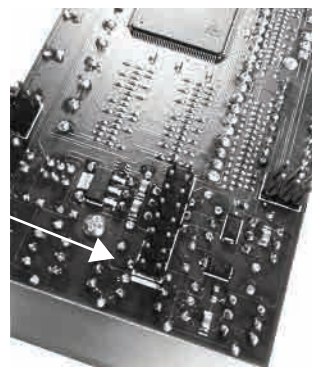
8. If you want to clear what you've recorded to the sequencer, hold the CLEAR button and move a slider to clear that parameter.

9. Follow steps 1-6 on each envelope channel or change it up a bit (each envelope channel can be fully edited).

10. There is an auto-save function. After making your final setting, wait 10 seconds before you power down. Then recycle your power and your settings will recall on power-up. If you are using the Varigate 8+ or the Varigate 4+ on the same power bus, you can utilize the memory power of these modules to save Quad Envelope presets (up to 100 presets with the V8+ and 16 presets with the V4+).

CONNECT POWER CABLE WITH
RED STRIPE TO WHITE LINE

Visit malekkoheavyindustry.com to read the full manual and register your product for warranty!