

A&R Envelope Generator – User Manual



1 Compact 3HP analog Attack & Release envelope generator

- Full analog
- Wide time range (1 ms to ~60 s)
- Curve shaping (exp / linear / log)
- Bipolar CV control
- Selectable retrigger behavior
- Manual trigger button
- Precision 0 V idle output

1 — ATTACK (Knob)

Sets the rise time of the envelope.

- Range: ~1 ms to ± 60 s

2 — SHAPE (Knob)

Selects the envelope response curve (continuous control):

- **Left** → Exponential (punchy, percussive)
- **Center** → Linear (neutral)
- **Right** → Logarithmic (smooth, natural)

3 — RELEASE (Knob)

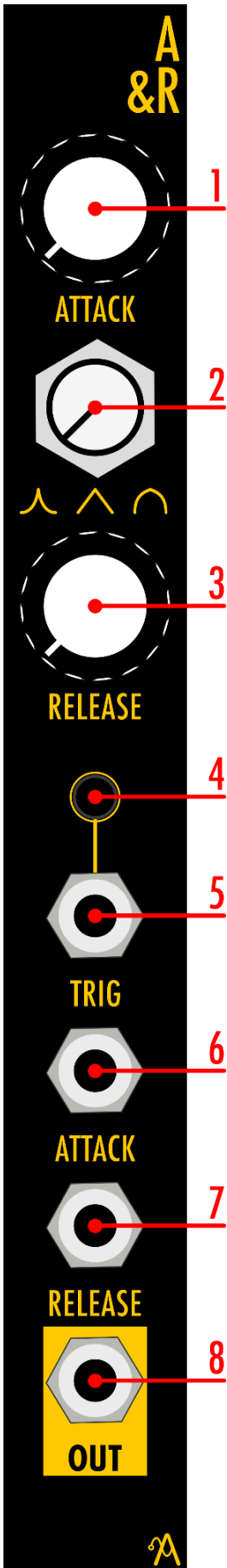
Sets the fall time of the envelope.

- Range: ~7 ms to ± 50 s

4 — MANUAL TRIG (Button)

Manually triggers the envelope.

- Press to start an **Attack** → **Release** cycle
- Useful for testing or performance interaction



5 — TRIG Input

Starts the envelope cycle.

- Accepts **trigger or gate signals** $\geq 2.5\text{ V}$
- Each trigger launches: **Attack** → **Release**

Retrigger behavior depends on rear setting:

- **Hard Reset ON** → Envelope restarts from **0 V**
- **Hard Reset OFF** → Envelope continues from current level (soft retrigger)

6 — ATTACK CV Input

Voltage control over attack time.

- **Bipolar CV input**
- CV is summed with the knob position

7 — RELEASE CV Input

Voltage control over release time.

- **Bipolar CV input**
- CV is summed with the knob position

8 — OUT

Envelope output.

- Range: **0 V to ~8.2 V**



Rear Settings (Jumpers)

No jumper means OFF

Hard Reset ON/OFF

- **ON** → Envelope restarts from **0 V** at each trigger
 - Sharp, consistent attacks
 - Ideal for percussive use
- **OFF** → Soft retrigger
 - Continues from current level
 - Smoother, more organic behavior

Soft Knee ON/OFF

- **ON** → Smooth transition between attack and release
 - Rounded peak
 - More natural response
- **OFF** → Sharper transition
 - More precise, angular envelope

Rear Trimmer

Idle Output Adjustment

- Adjusts output when idle
- Factory target: **exactly 0 V**
- Useful to eliminate offsets when controlling VCAs

Technical Specifications

- Width: **3 HP**
- Depth: **22 mm (including power connector)**

Power Consumption

- **+12 V**: 35 mA
- **-12 V**: 16 mA
- **+5 V**: 0 mA

Output

- **0 V to 8.2 V**