

2hp – Rout

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Manual PDF

Based on the attached manual, the module shown is **Rout**, a **2hp voltage-controlled gate router/switch**. It does **not generate pitch directly**, but it can be very useful in building **melodic structures** by routing rhythmic gate information to different destinations in a patch.

What Rout does

Rout takes **one gate/trigger input** and sends it to **one of four outputs**.

Key functions

- **INPUT**: incoming gate/trigger
- **SEL CV**: voltage control for selecting which output is active
- **SEL knob**: manual selection of output 1–4
- **OUT 1–4**: the selected output passes the input gate
- **LEDs**: show which output currently has voltage

Specs relevant to patching

- **Input threshold**: 2.5V
 - **Output range**: 0–5V gate/trigger
 - **SEL CV range**: 0–5V
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How Rout can help create melodic components

Since Rout is a **gate distributor under CV control**, its melodic use comes from deciding **which sequencer, envelope, voice, or modulation path gets triggered** at a given moment.

1. One rhythm, multiple pitched voices

Patch: - Master clocked gate pattern → **Rout INPUT - OUT 1-4** → trigger inputs of **four different voices** or **four different envelopes** controlling four oscillators

Result: - A single rhythm gets sent to different voices over time - If each voice is tuned to a different note, chord tone, or register, Rout turns one trigger pattern into a **melodic line with timbral or harmonic movement**

Example: - OUT 1 → bass voice - OUT 2 → root note lead - OUT 3 → fifth - OUT 4 → octave accent

Use **SEL CV** from an LFO, stepped random, or sequencer row to choose which note/voice is active.

2. Route one trigger stream to different sequencers

Patch: - Gate pattern → **Rout INPUT** - Each **Rout output** → clock/advance input of a different pitch sequencer

Result: - Only one sequencer advances at a time - You can effectively switch between different melodic phrases depending on the selected output

This is a strong way to create: - verse / chorus variations - call-and-response melodies - fills and alternate note orders

For instance: - OUT 1 → sequencer with bass motif - OUT 2 → sequencer with higher inversion - OUT 3 → sequencer with sparse phrase - OUT 4 → sequencer with dense ornamentation

The melody changes because different pitch sources are being stepped.

3. Route triggers to different envelope shapes for one oscillator

Patch: - One VCO provides the audio pitch - Several envelopes or function generators shape the VCA/filter differently - Trigger source → **Rout INPUT** - **OUT 1-4** → different envelope generators

Result: - Same oscillator pitch sequence, but each note articulation changes depending on routed gate destination - This creates perceived melodic phrasing: - plucked notes - long sustained notes - accented filter pops - ghost notes

Even if pitch stays the same, articulation can make the line feel much more melodic.

4. Create melody by switching quantizer/sample-and-hold triggers

Patch: - Random or stepped CV → quantizer input - Gate stream → **Rout INPUT** - **OUT 1-4** → different sample-and-hold or quantizer trigger paths, or different track-and-hold stages

Result: - Rout determines **when** and **where** new pitch values are captured - This can create alternating melodic behavior: - one output grabs notes frequently - another only occasionally - another triggers transpositions - another updates a harmony line

This is especially useful for semi-generative melodic systems.

5. Use Rout as a phrase selector for transposition events

Patch: - Main melodic sequencer runs continuously - Trigger pattern into **Rout INPUT** - Each Rout output sends a trigger to a different transpose event, precision adder gate, sequential switch, or CV preset recall

Result: - The same melody can jump between harmonic contexts - You can use outputs to trigger: - root position - minor third transpose - fifth transpose - octave jump

That makes Rout a **harmonic phrase router**, even though it only routes gates.

6. Send one trigger stream to different percussion-like pitched voices

If your system includes tuned percussion modules or pinged filters: - INPUT = regular trigger pattern - OUT 1-4 = different tuned resonant voices

Result: - One trigger source becomes a melody by striking different tuned modules - Great for: - marimba-style lines - West Coast bongo melodies - pseudo-sequenced modal percussion

Because the selection can be under CV control, the melodic order can be static or animated.

7. Controlled melodic variation with SEL CV

The biggest musical feature is **voltage control over output selection**.

Feed **SEL CV** with: - **Stepped random** for generative melodic routing - **Sequencer CV row** for repeatable phrase switching - **Slow triangle/sine LFO** for cyclical movement across destinations - **Manual CV controller** for live performance fills and transitions

Because SEL CV expects **0–5V**, it pairs well with many Eurorack modulation and sequencer sources.

Musical outcomes

- Repeatable output order = structured melody
 - Randomized output order = generative melody
 - Slowly changing selector = evolving phrase orchestration
 - Fast CV changes = glitchy ratcheting destination shifts
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Practical melodic patch ideas

Patch 1: Four-note melodic distributor

- Clock divider or trigger sequencer → Rout INPUT
- OUT 1–4 → four envelope generators
- Each envelope controls a different VCA for four tuned oscillators

Tune oscillators to: - C - E - G - B

Now Rout turns one rhythm into an arpeggiated chord spread across four voices.

Control: - SEL knob manually for fixed note choice - SEL CV from a sequence for melodic order

Patch 2: Phrase switching lead

- Gate sequencer → Rout INPUT
- OUT 1–4 → clock inputs on four pitch sequencers
- Outputs of pitch sequencers mixed or switched into one voice path

Each sequencer contains a different phrase. Rout determines which phrase advances, creating larger melodic form from small patterns.

Patch 3: Bassline with accents and octave jumps

- Main gate pattern → Rout INPUT
- OUT 1 → standard bass envelope
- OUT 2 → same bass voice plus octave transpose trigger
- OUT 3 → accent envelope
- OUT 4 → fill/reset event

This creates a bassline with evolving melodic contour from one simple gate stream.

Patch 4: Generative melody hub

- Master trigger source → Rout INPUT
- SEL CV from stepped random
- OUT 1 → trigger main sequencer advance
- OUT 2 → trigger sample-and-hold for new pitch
- OUT 3 → trigger transpose event
- OUT 4 → trigger second voice harmony envelope

This makes Rout the central decision-maker for melodic behavior.

Strengths of Rout in melodic patching

- Very compact at **2hp**
 - Excellent for **reusing one trigger source** across many melodic destinations
 - Adds **variation and structure** without needing a second trigger sequencer
 - CV control makes it easy to fold into generative or performative systems
 - Useful in both **polyphonic** and **single-voice evolving** patches
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Limitation to keep in mind

Rout is a **gate router**, not a pitch router or CV switch for melodic voltages. So by itself, it does not create notes. Its melodic value comes from routing **events** that affect: - when notes happen - which voice plays - which phrase advances - which articulation/transposition is triggered

In other words, Rout is best thought of as a **melody structure tool**, not a melody source.

Summary

Rout is ideal for creating melodic components by: - distributing one rhythm to different tuned voices - selecting which sequencer or phrase advances - varying articulation across notes - triggering transposition or harmony events - adding CV-controlled variation to otherwise static melodic material

If you upload the other module manuals too, I can analyze **how they work together as a complete melodic system** and suggest specific multi-module patches.

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