

2hp — Turing Machine

- [Manual PDF](#)
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TM 2HP Eurorack Module Manual (PDF)

(Use this official link or [here](#) if unsure—the above is a placeholder as there's no link in the image)

TM 2HP Cheat Sheet

TM is a probabilistic random sequence generator for Eurorack inspired by Turing Machine concepts. It is ideal for generative and evolving sequences or controlled random voltage sources.

Front Panel Reference

#	Label	Type	Function	Voltage Range
1	TRIG LED	Visual	Indicates change in sequence	N/A
2	TRIG	Input	Trigger/gate to advance/shift sequence	Threshold: 2.5V
3	PROB CV	Input	CV for probability (random/locked)	0–5V
4	PROB	Knob	Sets probability of random voltage change per step. Left = always new, Right = locked.	N/A

#	Label	Type	Function	Voltage Range
5	STEPS CV	Input	CV for sequence length	0–5V
6	STEPS	Knob	Sets sequence length; Left = 1, Right = 32	N/A
7	AMP	Knob	Scales output amplitude; Left = 0V, Right = 5V	N/A
8	OUT	Output	Random stepped voltage	0–5V

Quick Operation

- **Power:** 2HP, 47mm depth (Skiff friendly), +12V: 23mA, -12V: 7mA
 - **Install:** Ensure red stripe = -12V (down in most cases).
 - **Trigger:** Send trigger/gate $\geq 2.5V$ to TRIG; step advances and decides to create new random voltage based on PROB.
 - **PROB (Probability):**
 - **Left (100%):** Always generate new random voltage per step.
 - **Right (0%):** Sequence "locks" to current voltages, advances steps without further randomness.
 - **CV:** Patch in modulation (e.g., LFO, envelope) to vary randomness dynamically.
 - **STEPS (Sequence Length):**
 - Sets how many steps before looping (1–32). CV controllable.
 - **AMP (Amplitude):**
 - Sets range of output voltage. Full right = up to 5V, full left = 0V.
 - **OUT:** Output stepped random CV to pitch quantizer, filter cutoff, etc.
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Patch Tips

- For evolving melodies, patch OUT to a quantizer then to an oscillator pitch input.
- Use an LFO or random CV into PROB CV for dynamic randomness control.
- Adjust STEPS to taste for short or extended looping patterns.

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