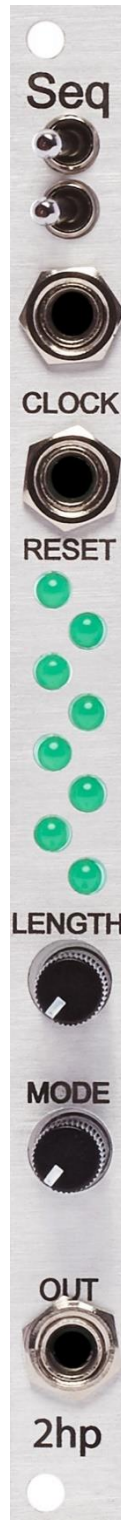# Seq

Seq

CLOCK

RESET

LENGTH

MODE

OUT

2hp

Description

Seq is a 16-step sequencer that is great for controlling oscillators, filters, and anything with a CV input. Portamento, length and playback mode can be adjusted, allowing for versatile, and performable sequences. An eight LED display provides clear feedback for each parameter, keeping the interface as simple as possible while boasting a full feature set.

- Adjustable sequence length from 1 to 16 steps
- Multiple playback modes (forward, reverse, pendulum, random)
- Variable portamento
- Quantized or unquantized output
- Eight preset scales
- Easy to use tuning interface
- Eight LED display for user feedback
- Saves pitch values and settings between power cycles

Table of Contents

Installation

To install, locate 2 HP of space in your Eurorack case and confirm the positive 12 volts and negative 12 volts sides of the power distribution lines. Plug the connector into the power distribution board of your case, keeping in mind that the red band corresponds to negative 12 volts. In most systems, the negative 12 volt supply line is at the bottom. The power cable should be connected to the Seq with the red band facing the front of the module.

Specifications

Format: 2 HP Eurorack module

Depth: 47mm (Skiff Friendly)

Max Current: +12V = 54mA
             -12V = 3mA

1

2

3

CLOCK

4

RESET

5

LENGTH

6

MODE

7

OUT

8

Seq

2hp
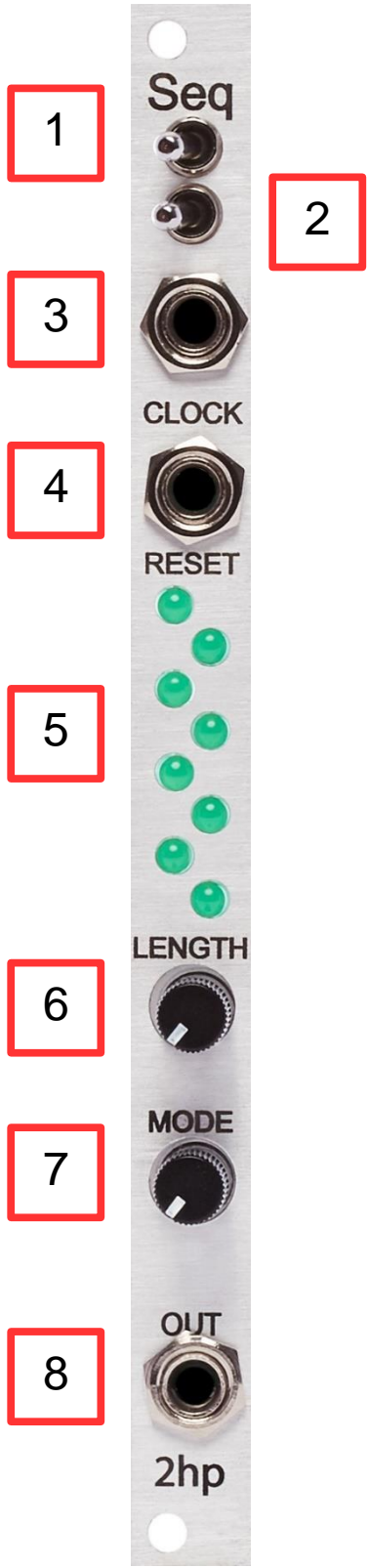
1. PLAY:

If the PLAY toggle is in the left position, play mode is active and the sequence will advance with every incoming clock signal present at CLOCK

If the PLAY toggle is in the right position, tune mode is active and the sequence will pause on the current step
(See **6. LENGTH** and **7. MODE** for more information)

NOTE:
Tune mode will be active when the PLAY toggle is in the right position, regardless of the position of the $\mathrm{SETTINGS}$ toggle

2. SETTINGS:

Toggle that changes the functionality of both knob controls
(See **6. LENGTH** and **7. MODE** for more information)

3. CLOCK:

Clock input that will advance the sequence one step for every clock pulse.

Threshold: 2.5V

4. RESET:

Gate/trigger input that will move the playback position to the beginning of the sequence

Threshold: 2.5V

5. LEDs:

LEDs that indicate the current step, sequence length, run mode, scale, and glide amount based on the position of the PLAY toggle and $\mathrm{SETTINGS}$ toggle and the movement of the LENGTH knob and MODE knob

6. LENGTH:
If the PLAY toggle is in the left position and the SETTINGS toggle is in the left position, the LENGTH knob selects the number of steps in the sequence

If the LENGTH knob is far left, the number of steps in the sequence will be set to 1
If the LENGTH knob is far right, the number of steps in the sequence will bet set to 16
The LEDs will indicate the last step of the sequence

If the PLAY toggle is in the left position and the SETTINGS toggle is in the right position, the LENGTH knob selects the desired scale

If the LENGTH knob is far left Chromatic will be selected
If the LENGTH knob is far right no scale will be selected and the output will be unquantized

The LEDs will indicate the currently selected scale as the LENGTH knob is moved from left to right

- Chromatic = LED 1
- Major = LED 2
- Minor =` LED 3
- Major Pentatonic = LED 4
- Minor Pentatonic = LED 5
- Harmonic Minor = LED 6
- Whole Tone = LED 7
- Diminished = LED 8
- Unquantized = No LEDs

If the PLAY toggle is in the right position, tune mode is active and the LENGTH knob selects the desired step to be tuned

NOTE:
All LENGTH knob settings will save in between power cycles if the position of either toggle changes

7. MODE:
If the PLAY toggle is in the left position and the SETTINGS toggle is in the left position, the MODE knob selects the run mode of the sequence

If the MODE knob is far left, the run mode will be set to Forward
If the MODE knob is far right, the run mode will be set to Random

The LEDs will indicate the currently selected run mode as the MODE knob is turned from left to right

- Forward = First set of LEDs
- Backward = Second set of LEDs
- Pendulum = Third set of LEDs
- Random = Fourth set of LEDs

If the PLAY toggle is in the left position and the SETTINGS toggle is in the right position, the MODE knob selects the amount of glide in between steps

The LEDs will indicate the amount of glide as the MODE knob is turned from left to right

If the MODE knob is far left and no LEDs are illuminated, glide will not be applied
If the MODE knob is far right and all LEDs are illuminated, the transition time between successive pitch values will be set to its maximum value

If the PLAY toggle is in the right position, tune mode is active and the MODE knob changes the value assigned to the selected step set by the LENGTH knob

NOTE:
All MODE knob settings will save in between power cycles if the position of either toggle changes

8. OUT:
Sequence output

Range: 0V – 5V