Arturia — Keystep Pro

• [Manual PDF](#)

[Arturia KeyStep Pro – Full User Manual PDF](#)

Arturia KeyStep Pro – Eurorack Cheat Sheet

(Controller/Sequencer for Modular & MIDI Gear - Essentials Guide)

Hardware Overview

- **Type:** 37-key MIDI/CV controller & sequencer
- **Power:** 12V DC, 1.0A (Center Positive)
- **Computer Connection:** USB MIDI Class Compliant
- **Standalone:** Yes (DC power jack)

I/O Connections

Analog Voice Outputs (for Modular)

- **Voice Outs (1–4):**
- **Pitch CV (1V/Oct, 1.2V/Oct, or Hz/V)**
    - **Range:** 0–10V (assignable per voice)
    - **Set in Utility/MIDI Control Center**
    - **Default:** 1V/Oct for Eurorack
- **Velo/Mod CV (velocity or aftertouch, assignable)**
    - **Range:** 0–10V (max settable 1–10V)

- ○ **Default:** Velocity
- **Gate CV**
  - ○ **Range:** 0 or +5V/+10V (V-Trig, S-Trig selectable)
  - ○ **Default:** +5V (V-Trig)

Drum Gates (Track 1/Drum Mode)

- **Outputs 1–8:**
- **Trig/Gate:** 0V/+5V (or +12V, S-Trig assignable)
- **For triggering modular drums or EGs**
- **Drum outputs map to the lowest 8 keys**
- **MIDI Note assignment customizable**

Clock Section

- **In:** Accepts 1 pulse/step, 2/step, 24ppq, 48ppq (0–5V)
- **Out:** Outputs settable clock types (same rates, 0–5V)
- **Reset Out:** +5V, 4ms pulse (when STOP/RESET sent)

MIDI Section

- **MIDI In:** 5-pin DIN
- **MIDI Out 1/Out 2:** 5-pin DIN (x2)
- **Can send/receive all MIDI notes, CCs, sync, transport**

USB MIDI

- **Type B port**
- Class compliant – driverless. Can power via USB but hardware recommends using power supply for modular/CV use.

Power

- **12V DC**, center positive, 1A, barrel connector

Controls

Knobs/Encoders

Main Encoders (x5, touch-sensitive): 1. Pitch 2. Gate length 3. Velocity 4. Time Shift 5. Randomness

- **Function depends on mode:**
- **Seq/Drum:** Encode step parameters
- **Control Mode:** Send MIDI CCs (assignable)

Tempo/Fine
- Set project/global tempo, or shift for fine adjust

Swing/Offset
- Set swing per-sequence/project (+track offset with Shift)

Metronome Level (back panel)
- Retractable knob

Buttons

- **Transport:** PLAY, STOP, RECORD/QUANTIZE
- **Step (16):** For programming, selecting, copy, page select (for steps 1–64)
- **Track (1–4):** Select sequencer/track
- **Seq/Arp/Drum:** Toggle track mode (Track 1 = Drum, 2-4 = Arp)
- **Pattern, Scene, Chain:** Pattern and arrangement management
- **Mute/Solo:** Per-track
- **Overdub, Tie/Rest/Chord, Hold, Transpose, Shift**
- **Looper touch strip:** Live loop length & position

Keybed

- 37 SlimKeys, velocity + aftertouch
- **Oct +/−, Pitch strip, Mod strip:** Touch controls

CV/Gate, Input/Output Reference & Voltage Ranges

Jack Name	Type	Signal	Voltage Range	Notes
Voice 1–4 Pitch	Output	CV (1V/Oct, etc)	0–10V (default)	Eurorack, Buchla, Hz/V assign.
Voice 1–4 Velo/Mod	Output	CV	0–10V (default)	Velocity or Aftertouch
Voice 1–4 Gate	Output	Trigger/ Gate	0/+5V (default), +10V	V-Trig/S-Trig select
Drum 1–8	Output	Trigger/ Gate	0/+5V (default), +12V	For modular drum triggers
Clock In	Input	Sync Pulse	0–5V (typical, TTL)	1step to 48ppq
Clock Out	Output	Sync Pulse	0–5V (typical, TTL)	Configurable ppq
Reset Out	Output	Gate	+5V/4ms pulse	Step/sequence reset
MIDI In	Input	MIDI DIN	—	Standard MIDI
MIDI Out 1/2	Output	MIDI DIN	—	Standard MIDI
USB	Bi-dir	USB MIDI	—	Sends/receives MIDI

Jack Name	Type	Signal	Voltage Range	Notes
Sustain	Input	Footswitch	—	Momentary
Metronome Out	Output	Audio (click)	Line level	For click track
Power	Input	12V DC, 1A	—	2.1mm ID, 5.5mm OD, C+

Key Performance Functions

- **Four Sequencers or three + drum sequencer**
- **Poly sequencing:** Up to 16 notes per step
- **Step input, realtime input, overdub**
- **Arpeggios:** 3 tracks, multiple modes, scales/octave/patt
- **CV Assign:** Route any track to any CV out
- **Drum Triggers:** Track 1 only, polymeters possible
- **Instant pattern change, pattern chains/scenes**
- **Flexible clocking:** MIDI, DIN, analog
- **SHIFT shortcuts everywhere:** Step operations, scale, root, CV assignment, pattern ops, time division...

Programming & Performance Quick Tips

- **Connect to Modular:**
- CV/Gate as described above; set correct standard (1V/Oct, V-trig, etc) in Utility or MIDI Control Center
- Use Drum Gate outputs for triggering modular drums
- **Split keyboard:** Two tracks, upper/lower split (hold two Track buttons, set split note)
- **Assign CV:**
- `SHIFT + G#/A/A#/B` (top octave): Route track to any CV voice(es)

- **Set scales quickly:**
- `SHIFT + Key` (upper row, blue text) for scale select, root, and custom scales
- **Polyrhythms:**
- Track length, polymeter per Drum track (Drum mode Poly)
- **Pattern management:**
- Copy, paste, clear, undo, chain, scenes all accessible with dedicated/shift + buttons.

Control Summary (Knobs, Buttons, Controls)

- **Knobs/Encoders:**
- 5x Encoder (Pitch, Gate, Velocity, Time Shift, Random), 1x Tempo, 1x Swing
- Metronome level (back panel)
- **Switches/Buttons**
- Per above - Transport, Track select/mode, Pattern, Scene, Chain, Step, Mute, Solo, Utility, Control, Overdub, Hold, Chord, Tie/Rest, Octave, Looper
- **Touchstrips:** Pitch, Mod, Looper (horizontal)

SHIFT + [Key]

- Pattern direction, scale, root, time division, chord mode, CV routing, clear, nudge, quantize, transpose, step skip, etc.

Useful Links

- [Full Manual PDF (Arturia)](#)
- [Generated With Eurorack Processor](#)

Modular Setup Reminder

- Always power off before connecting CV/Gate!

- Confirm voltage/trig standard with your synthesizer's documentation.
- Use MIDI Control Center or Utility menu for advanced configuration.

This cheat sheet covers essentials for modular/Eurorack users. For deep dives (scenes, DAW integration, firmware-specific features), refer to the full manual above.