

# Doepfer – A-160-2

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- [Manual PDF](#)

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## [A-160-2 Clock/Trigger Divider II Manual \(via Doepfer\)](#)

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## Creative Uses for the Doepfer A-160-2 Clock/Trigger Divider II

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The Doepfer A-160-2 Clock/Trigger Divider II is a highly flexible clock utility, capable of generating a broad variety of rhythmic divisions. Its versatility allows it to serve a range of functions in any Eurorack system beyond simple drum clocking. Here are some creative patching ideas:

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### 1. Complex Rhythms and Polyrhythms

#### How:

Use the prime number division mode (2, 3, 5, 7, 11, 13, 17) to create evolving polyrhythms.

#### Combine With:

- Multiple drum modules (e.g., **ALM Akemie's Taiko**, **Tiptop Audio ONE**)
- Sequential switches or analog switches (e.g., **Doepfer A-151 Sequential Switch**)

#### Idea:

Patch different divider outputs to individual drum triggers. Using non-binary divisions, you get non-repeating rhythmic patterns. Pass some of these triggers to a sequential switch to rotate the destinations for even less predictability.

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## 2. Generative and Evolving Sequences

### How:

Send divided clocks into random generators or sequential switches for generative melody/rhythm.

### Combine With:

- Random or sample & hold (e.g., **Mutable Instruments Turing Machine**, **Doepfer A-184-1**)
- Quantizers (**Intellijel Scales**, **Doepfer A-156**)

### Idea:

Feed the A-160-2's divided outputs to trigger random voltage generators, then quantize those voltages to create musical pitches. The varying length of divided clocks introduces organic timing into your generative process.

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## 3. Clocked Modulation/Gates

### How:

Use gate or trigger outputs to cycle modulation sources in sync with your master clock.

### Combine With:

- Envelope generators (**Intellijel Quadra**, **Make Noise Maths**)
- LFOs

### Idea:

Trigger envelopes or reset LFOs with different divisions for evolving modulation that stays rhythmically relevant to your sequence.

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## 4. DIY Euclidean Patterns

### How:

Patch divisions from the "integer" output set (2, 3, 4, 5, 6, 7, 8) to gate the steps of a sequencer/reset logic, mimicking Euclidean rhythms.

### Combine With:

- Simple step sequencer (**Doepfer A-155**, **Erica Synths Sequencer**)
- Logic modules (AND/OR, e.g., **Doepfer A-166**)

### Idea:

AND-gate together different divider outputs for DIY Euclidean patterns or to create rests/accents in drum parts.

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## 5. Clocked Effects & Synchronized Modulation

### How:

Synchronize effects like delays, filters, or audio processing with sub-divided clock signals.

### Combine With:

- Synchronized effects processors ([Make Noise Mimeophon](#), [Erica Synths Pico DSP](#))
- VCAs or LPGs

### Idea:

Use a divided clock output to ping a filter resonance, open a VCA/LPG, or modulate effect send levels, all perfectly in sync but at musically related sub-divisions.

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## 6. Performance/Improvisation Tools

### How:

Switch divisions and modes live for spontaneous variation.

### Combine With:

- Manual gate or switch modules ([Mutable Instruments Shades](#), [Doepfer A-150](#))

### Idea:

Flip the divider set switch mid-performance for instant rhythm changes, or engage/reset the module on the fly to reorganize the patterns.

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## 7. Syncing Analog and Digital Worlds

### How:

Take a MIDI clock or a DAW sync signal (via a MIDI-to-CV interface) and use the A-160-2 to produce complementary clocks for analog sequencers, drum machines, or S&H modules.

### Combine With:

- MIDI-to-CV interface (**Doepfer A-190-series, Expert Sleepers FH-2**)
- Clock distributors/multiples (**Intellijel Buff Mult, Mutable Instruments Links**)

#### Idea:

Let your DAW run at one tempo, while different synth voices or modulation lines run on intricate, clocked subdivisions for intricate interplay.

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## Additional Creative Nuggets

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- **Inverted Outputs:** With the output polarity jumper, you can get negative-polarity clocks for specialized logic patches.
- **Trigger Mode AND Clock Pulsewidth:** Use the trigger mode with clock sources that have variable pulsewidth to create variable-duration triggers—handy for driving percussion modules with dynamic amplitude or accent response.

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