

# Doepfer – A-160-2

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- [Manual PDF](#)
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[Doepfer A-160-2 Manual \(Source\)](#)

## Doepfer A-160-2 Clock/Trigger Divider II

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### Cheat Sheet

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## Summary

The A-160-2 is an advanced clock/trigger/gate divider. It takes a clock input and produces seven simultaneous divided outputs (with selectable division patterns and output types). It's useful for rhythm generation, clocking sequencers, and related timing duties in a Eurorack system.

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## Inputs & Outputs

### 1. Clock In

- **Use:** Receives external clock, gate, or trigger.
- **Voltage Range:** Digital signal (logic) e.g. 0V = low, +10V = high.
- **Sources:** LFO, MIDI sync, MIDI-CV gate, etc.
- **Note:** Clock edge (rising or falling) can be set via PCB jumper.

## 2. Reset In

- **Use:** Resets output state according to mode.
- **Voltage Range:** High = >2.5V, Low = <1V.
- **Configurable by Jumpers:**
  - Level vs. edge trigger
  - Respond to positive or negative edge/level

## 3. Seven Clock Divided Outputs (per mode)

- **Voltage Range:** 0V (low),  $\approx$  +10V (high)
- **Output Polarity:** Select non-inverted/inverted via PCB jumper

**Output Division Types (selected via 3-way switch):**

- **Powers of 2:** /2, /4, /8, /16, /32, /64, /128
  - **Prime Numbers:** /2, /3, /5, /7, /11, /13, /17
  - **Integer:** /2, /3, /4, /5, /6, /7, /8
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## Front Panel Controls

- **Division Set Selector (3-way toggle):**

Selects between:*Powers of Two, Prime Numbers, Integer Sequences*

- **Output Mode Selector (3-way toggle):**

- **Gate:** Each output stays "high" for half its division cycle.
- **Trig:** Each output is AND-wired with the incoming clock (follow clock pulselength).
- **"Cst" (Custom):** Not implemented in current firmware.

*No knobs, buttons, or sliders are present on the panel.*

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# Internal Jumpers (on PCB, for advanced configuration)

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- **Clock Edge:** Rising or falling edge triggers output state change.
- **Reset Behavior:** Level vs edge, positive vs negative.
- **Output Polarity:** Outputs normal or inverted.

For jumper locations/functions, see: [A160\\_2\\_jumpers.pdf \(Doepfer\)](#)

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## Physical Specs

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- **Width:** 4 HP (20mm)
  - **Depth:** 35mm
  - **Current:** +12V: 50mA, -12V: 0mA
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## Key Usage Tips

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- Connect your master clock source to "Clock In".
  - Use "Reset In" for synchronized resets (e.g. when syncing rhythm to bar start).
  - Use the top toggle to select which division family best fits your patch.
  - Use the mode toggle to pick Gate or Trigger type outputs.
  - All outputs are available simultaneously for creative patching.
  - Unused center "Cst" output mode may offer new features with future firmware.
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## Reference Links

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- [Doepfer A-160-2 Product Page & Manual](#)
- [A160\\_2\\_jumpers.pdf \(jumper config\)](#)
- [Generated With Eurorack Processor](#)