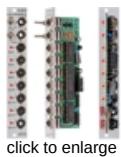


## A-160-2 Clock/Trigger Divider II

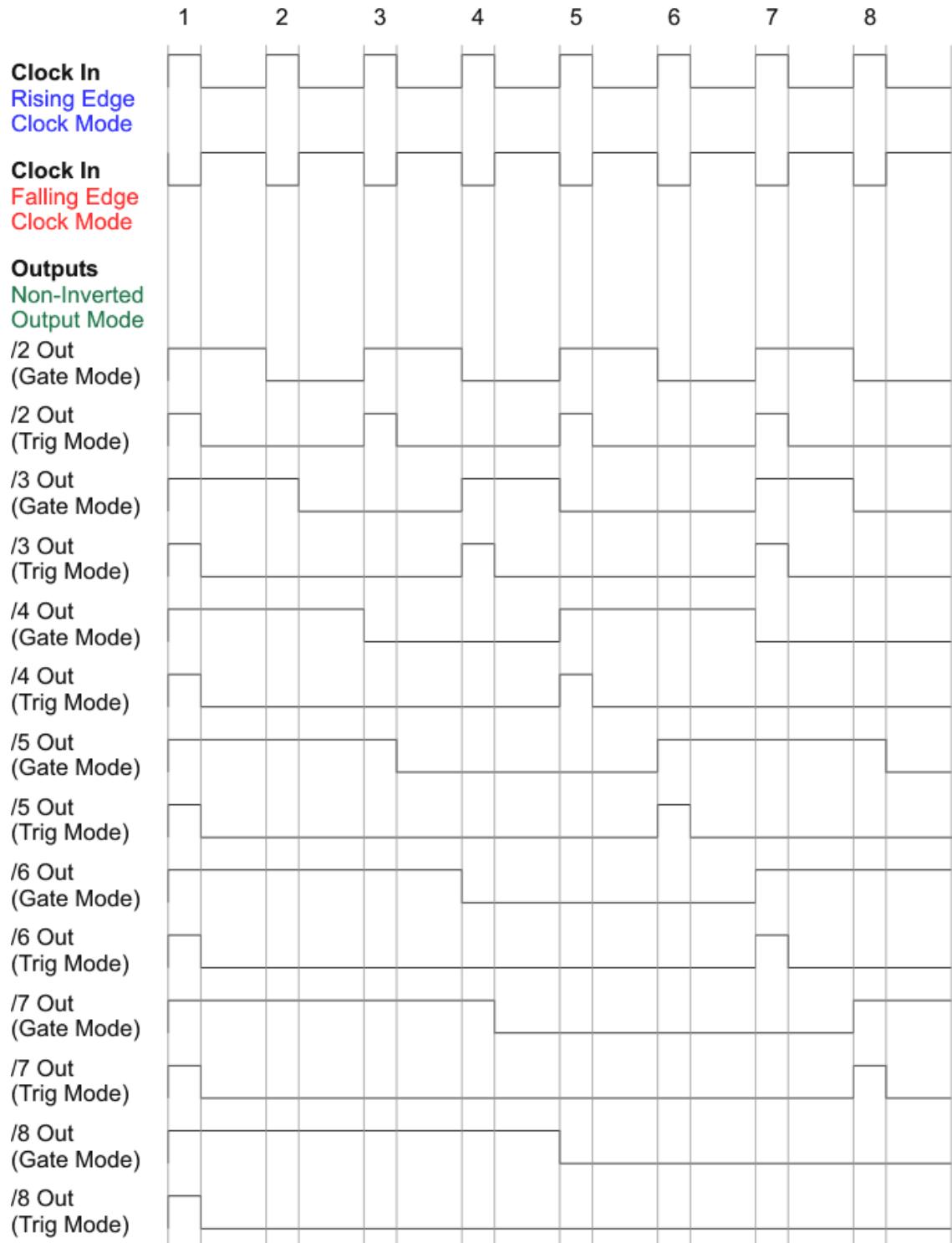


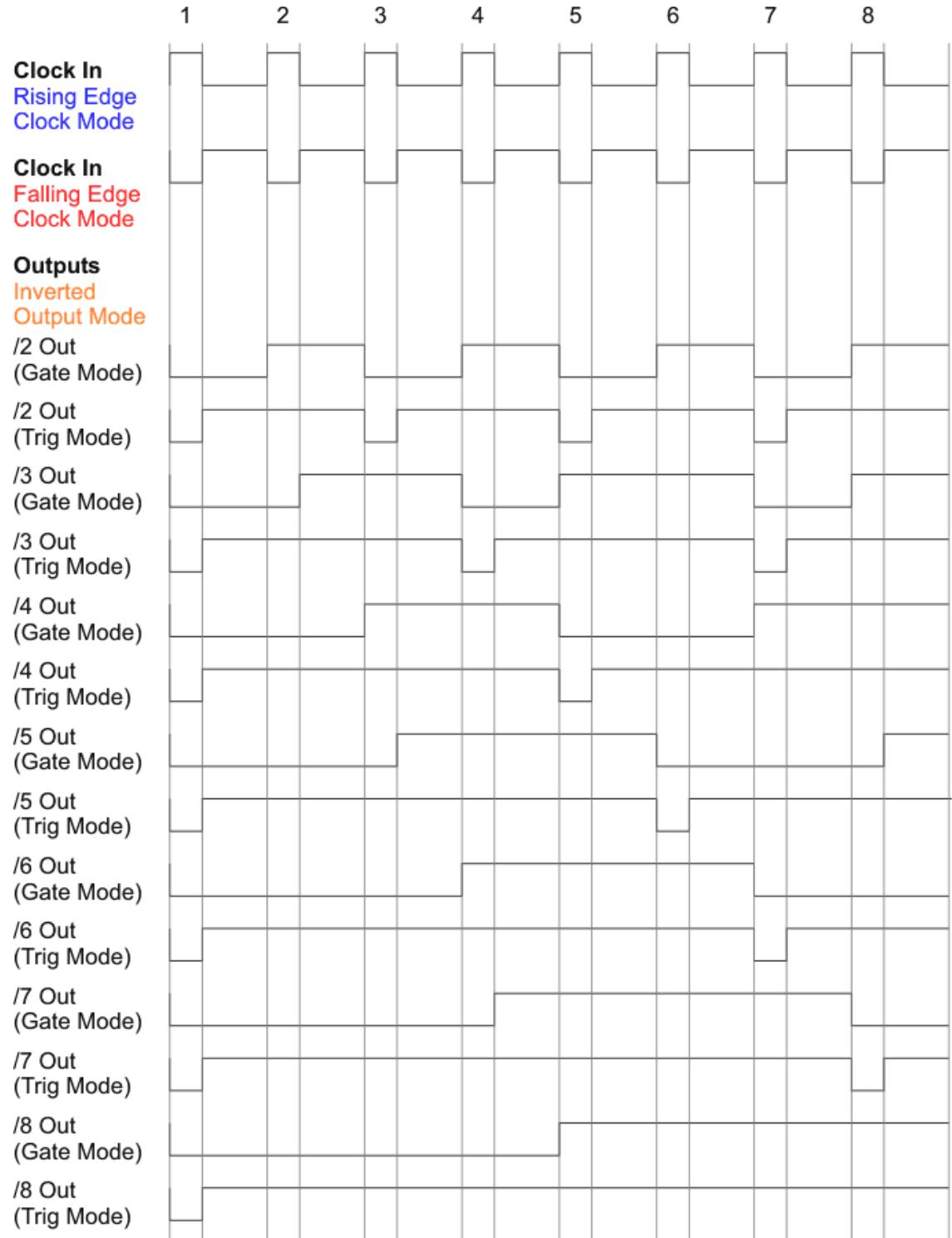
Module A-160-2 is an enhanced version of the standard clock divider [A-160](#). The module is a frequency divider for clock/trigger/gate signals, designed to be a source of lower frequencies, particularly for rhythm uses. The Clock input will take any digital signal from, eg., an LFO, MIDI sync, or the gate from a MIDI-CV interface. At the outputs, you have access to three sets of seven different sub-divided clock signals, from half the clock frequency down to 1/128. The low/high levels of the output signals are 0V and about +10V. The A-160-2 also has a reset input. Whenever a reset signal is sensed, all outputs are set to certain levels which depend upon the selected mode.

These are the most important features of the module:

- Three different sets of dividing factors, selected by a three-position switch at the front panel:
  - power of two: 2, 4, 8, 16, 32, 64, 128
  - prime numbers: 2, 3, 5, 7, 11, 13, 17
  - integer: 2, 3, 4, 5, 6, 7, 8
- Two output modes, selected by a two-position switch at the front panel:
  - Gate mode: outputs act like the outputs of typical binary dividers
  - Trigger mode: in this mode the outputs are AND-wired with the clock signal (i.e. the clock pulsewidth affects the pulsewidth of the outputs)
  - (the center position labelled "Cst" has no meaning so far, please refer to the note at the bottom of the page)
- Clock edge type selected by a jumper on the pc board:
  - positive: the rising edge of the clock signal triggers the state change of the outputs
  - negative: the falling edge of the clock signal triggers the state change of the outputs
- Reset behaviour by two jumpers on the pc board:
  - level triggered: the level at the Reset input triggers the Reset
  - edge triggered: the edge of the signal at the Reset input triggers the Reset
  - positive: a high level (> 2.5V) or the rising edge at the Reset input triggers the Reset
  - negative: a low level (< 1 V) or the falling edge at the Reset input triggers the Reset
- Output polarity selected by a jumper on the pc board:
  - positive: non-inverted outputs
  - negative: all seven outputs are inverted

The sketches show the behaviour of the outputs for the different modes:





The document [A160\\_2\\_jumpers.pdf](#) shows the position and the function of the jumpers in question.

**Note:** In the final version of the module the upper toggle switch (i.e. the switch which is used to select between Gate and Trigger outputs) is also a 3-position switch. The center position is labelled "Cst" as an abbreviation for "Custom" mode. So far the custom mode is not yet implemented. For future firmware versions a custom mode is planned that can be selected by means of two unused jumpers (probably inverted gate output mode or inverted trigger output mode).

Note: It is not possible to connect the [A-161](#) to the A-160-2 as the conception of the A-160-2 is totally different compared to the [A-160](#) with its fixed binary dividing.

Breite/Width: 4 TE / 4 HP / 20.0 mm

Tiefe/Depth: 35 mm (gemessen ab der Rückseite der Frontplatte / measured from the rear side of the front panel)

Strombedarf/Current: +50mA (+12V) / -0mA (-12V)

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Preise / Prices:

**Standard Version** : Euro 110.00

**Vintage Edition** : Euro 120.00

The price in US\$ depends upon the exchange rate between Euro and US\$ at the payment day.