

# SYNAPSE

Synapse is a CV breakout module for the Elektron Analog Four and Analog Keys. It simplifies integration of these devices into a Eurorack modular synth context by eliminating the need for insert cables and adapters while also providing visual feedback about what's happening on each of the four CV channels.

## Technical Details

In the box:

- Synapse module
- Power cable (10-to-16 pin)

Dimensions:

- Width: 6hp (1.2" or 30.5mm)
- Height: 3U (5.06" or 128.5mm)
- Depth: 30mm (with power cable installed)

Power Requirements:

- Maximum of 30mA at +12V
- Protected against reverse polarity

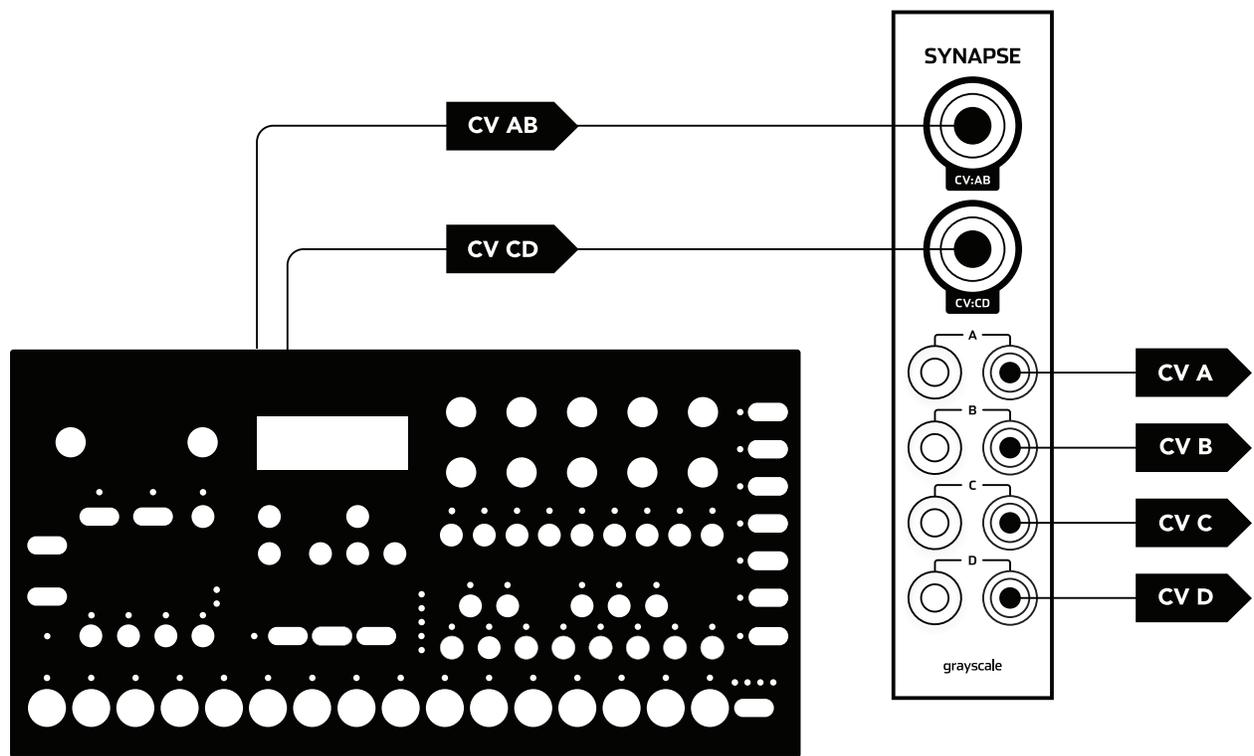
## Module Installation

To install the module in your Eurorack system, first ensure that power to the system is turned off. Please take precautions against ESD (electrostatic discharge) to prevent permanent damage to the module's components. Connect the smaller 10-pin socket of the power cable to the module, noting the "stripe" indicator on the PCB (which should align with the red stripe on the cable). Then connect the 16-pin socket to your power distribution board. Take note of the power cable's orientation with regard to the -12V supply of your power distribution board. The red stripe usually (but not always) aligns with the bottom of the power connector. Synapse is protected against reverse polarity (which occurs when a power cable is connected upside down) but other modules in your system may not be.

## Getting Started

Using 1/4" TRS cables, connect the CV outputs of your Analog Four or Analog Keys to the two Synapse inputs (labeled CV:AB and CV:CD). The four CV channels will be available at the 3.5mm output jacks below. Each output has an associated bicolor LED to indicate the polarity and relative intensity of outgoing CV signals. Green represents positive voltage, red represents negative voltage.

The fully analog circuit design of Synapse ensures that CV signals from the A4/AK will pass through unaffected. The full +/- 10V output range can be used without limitation.



**ELEKTRON ANALOG FOUR**

## Technical Support and Warranty Information

Send an email to [contact@grayscale.info](mailto:contact@grayscale.info) with requests for service or technical support.

Warranty coverage is provided for a period of one year from the date of purchase. Problems with a module under warranty may be remedied through repair, replacement, or refund, at the sole discretion of the manufacturer. The warranty does not cover damage caused by the user, including but not limited to system power supply malfunction, electrostatic discharge, introduction of excessive voltage levels into the module, or physical damage to the components.

## Intellectual Property

The trademarks *Elektron*, *Analog Four*, and *Analog Keys* are used only as indications of product compatibility. Synapse is not endorsed by, supported by, or manufactured by Elektron Music Machines MAV AB or its subsidiaries.