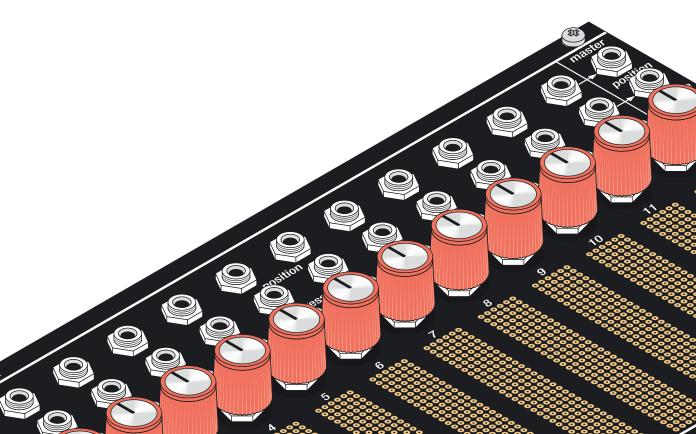
VERBOS ELECTRONICS Mini Horse



Congratulations on obtaining your Verbos Electronics Mini Horse. This Euro-Rack format touchplate keyboard controller module can be used to dynamically control many parameters at the same time. The module contains 12 independent pressure and position sensetive touchplate keys as well as a master section for using them together as a unified controller.

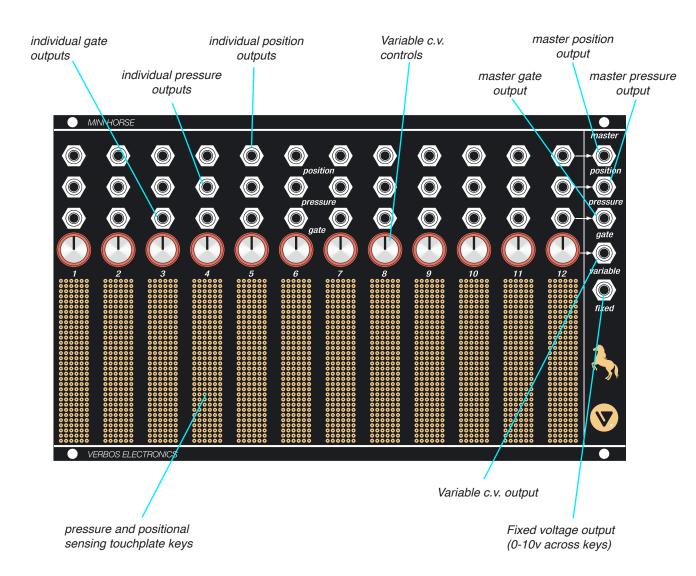
The Individual Keys

The majority of the module is occupied by twelve gold plated touch sensetive keys. Each of these keys is an independent circuit, uneffected by the others, with its own outputs for position, pressure and gate. The position output is 0volts at the end near the user and 10 volts near the red knob. When the finger is lifted, the control voltage remains at the level it was last touched, allowing swiping across the keys to draw connected sets of parameters on modules such as the Harmonic Oscillator or Bark Filter Processor. The pressure output provides a higher voltage as more skin touches the key, resulting in higher voltage for a harder press. The gate output goes high whenever the key is touched.

The Master Section

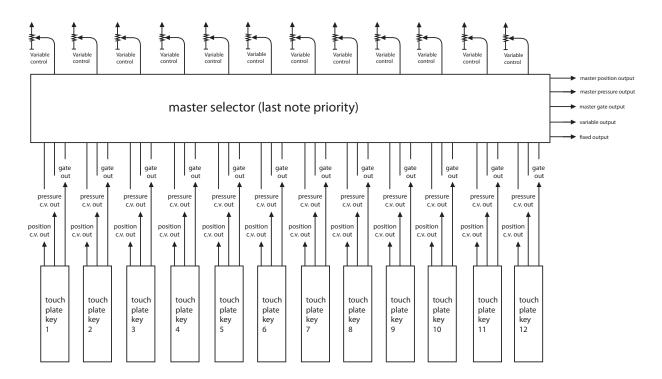
The section at the right side provides outputs of the position, pressure and gate of whichever key was last activated. The active key is indicated by a red LED shining through the holes in the key near its number. Additionally, the Variable output provides a tunable control voltage, set by the red knob directly above the active key. The Fixed output is a voltage ranging from 0 volts at key 1 to 10 volts at key 12 and equally spaced between them. This section allows the Mini Horse to be used as a controller for a single synth voice, in the style of classic touchplate keyboards from the 1960s and 1970s. However, the use of the master section in no way effects the individual keys' outputs.

42HP • 420g • +12v 140mA • -12v 115mA • <15mm deep





designed and assembled in Berlin, Germany



Verbos Electronics GmbH info@verboselectronics.com www.verboselectronics.com