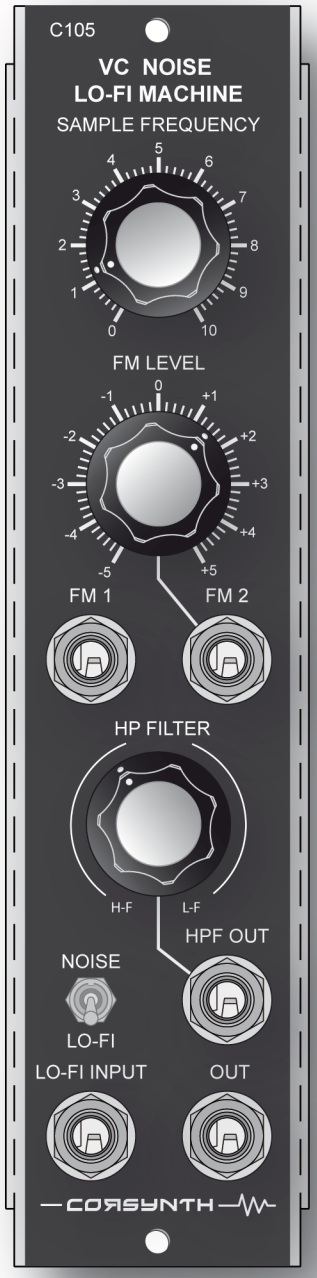
CORSYNTH

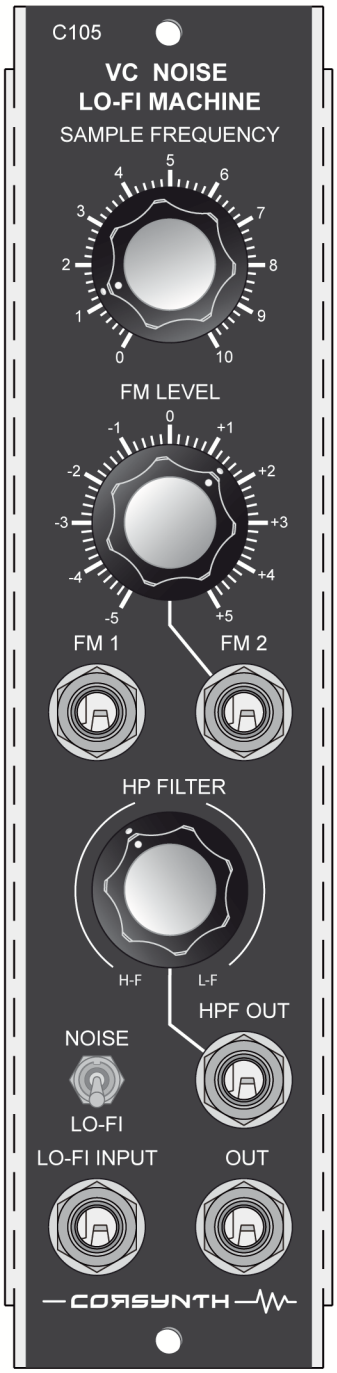
C-105

VC NOISE / LO-FI MACHINE



USER MANUAL

C105 VC NOISE / LO-FI MACHINE



The C105 VC Noise / Lo-Fi Machine is a voltage controlled analog sample rate reducer with an internal white noise generator.

Do you want to add a digital touch to your analog modular synth ? No problem.

This module is based on a Sample and Hold designed to work at audio rates. The internal clock runs from 250Hz up to 40KHz and can be voltage controlled. This wide frequency range and two FM inputs (one with a reversible attenuator) allow to create subtle digital effects or really harsh and Lo-Fi sounds.

The internal noise generator in combination with the S&H make a perfect way to create pitched noise, very useful to synthesize drums sounds , drones and sound effects.

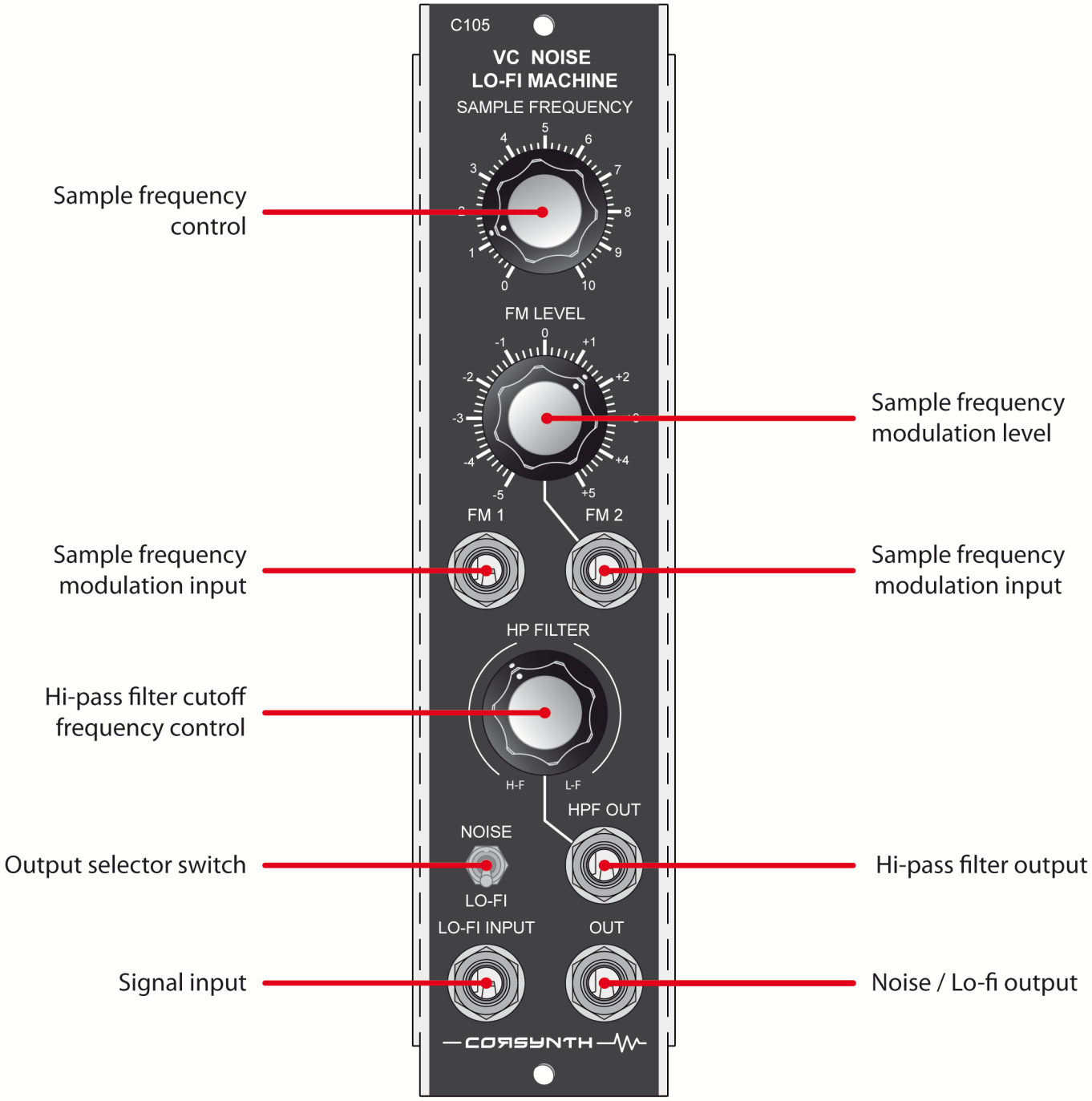
In addition, there is also a first order passive high pass filter with an independent output.

C105 main characteristics

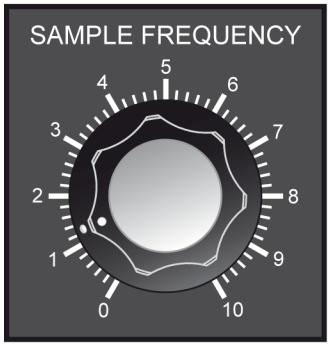
- Internal white noise generator.
- CV controlled sampling frequency.
- Frequency range : 250Hz to 40KHz (down to 10Hz using CV)
- Passive first order high pass filter.

The Lo-Fi input is normalized to the internal noise generator.

C105 VC Noise / Lo-Fi Machine
Front Panel Description



CONTROL DESCRIPTION



SAMPLE FREQUENCY

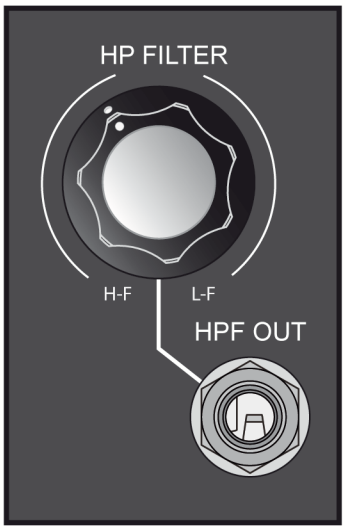
This control sets the sampling frequency of the internal Sample and Hold. The sampling rate goes from 250Hz to 40Khz.

FM 1

Sample frequency modulation input. The input allow positive and negative signals (+/- 5 Volts)

FM 2

Sample frequency modulation input. The FM LEVEL control is a reversible attenuator that sets the amount of modulation. The input allow positive and negative signals (+/- 5 Volts).



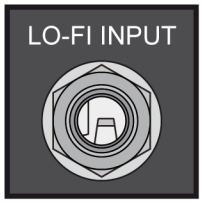
HPF OUT

Hi-pass filter output. The HP FILTER control sets de cut-off frequency of the filter.

INPUT SELECTOR SWITCH

This switch selects the signal to be sampled by the internal Sample and Hold. The two options available are :

NOISE : internal noise generator
LO-FI : LO-FI signal input



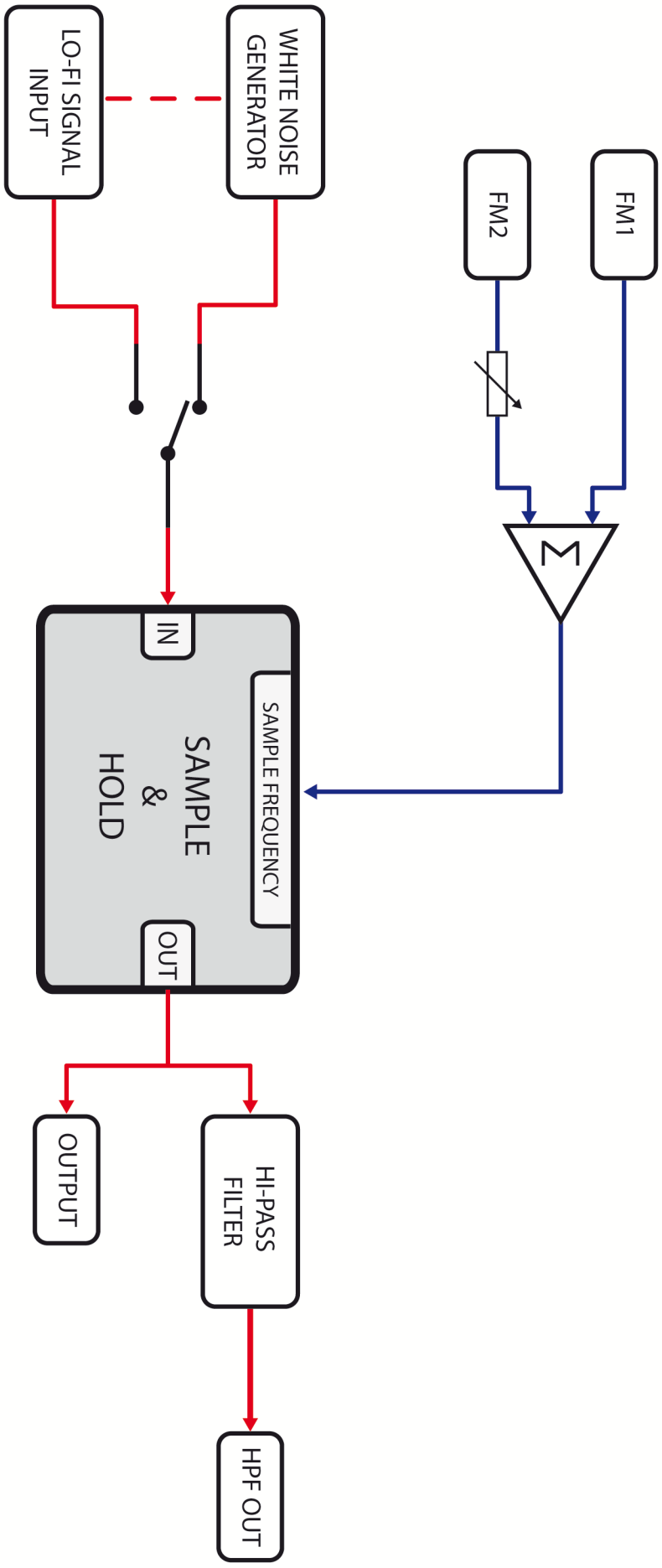
LO-FI INPUT

Input signal to be sampled. If nothing is patched to this input, the internal noise generator is connected to it.

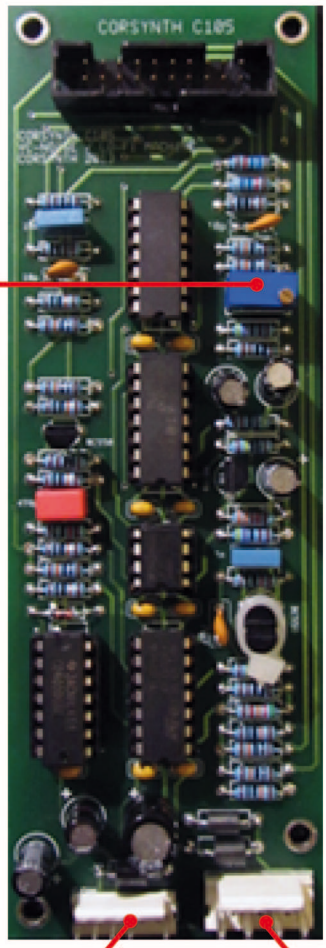
OUT

Sampled signal output.

BLOCK DIAGRAM

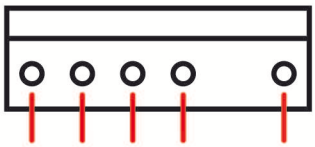


POWER CONNECTORS AND TRIMMERS

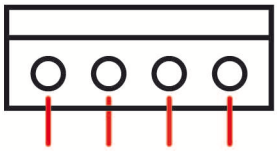


White noise level

Synthesizers.com



MOTM



IMPORTANT !!!!

This module has two power connectors
(Synthesizers.com and MOTM).
Only one is needed to power the module.
(Synthesizers.com or MOTM).
Never connect both at the same time.

Synthesizers.com
power connector

MOTM
power connector

TECHNICAL DATA

Module Format : 5U, (Synthesizers.com, Moog)
Module Width : 1 MU (Moog unit)
Power : +15V@28mA , -15V@26mA
Power connectors : Synthesizers.com , MOTM (4 pin)
Signal level : 10Vpp (+/- 5V)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