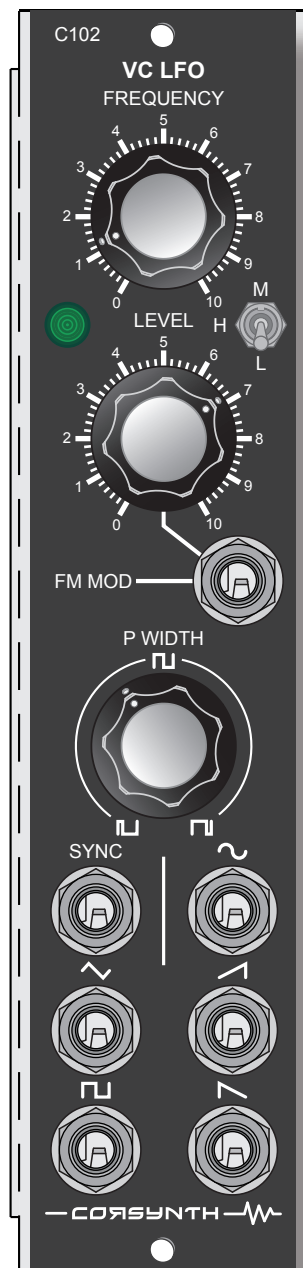


— CORSYNTH — 

C-102

VC LFO



USER MANUAL

C102 VC LFO

The C102 VC LFO is a voltage controlled low frequency oscillator with five waveforms available simultaneously.

With three frequency ranges (L, M, H) the VC LFO can oscillate from 7 minutes per cycle up to 800 Hz. Using the FM MOD input this range can be extended from 12 minutes per cycle up to 1,3 KHz. With this wide frequency range, the LFO can be used to produce really slow and subtle modulations and audio frequency modulation (FM sounds).

Another important feature is that the oscillation frequency can be voltage controlled using the FM input. You can modulate the frequency with an envelope, other LFO , sequencer etc. Using the FM input, it's also possible to create new waveforms like hyperbolic sine wave, hyperbolic cosine wave and more. Just connect one of the VC-LFO outputs to its own FM input and turn up the FM level potentiometer.

Also the C102 VC LFO has a Sync / Reset input. Every time a trigger signal is detected, the LFO will restart the waveform to the beginning of its cycle.

C102 main characteristics

Three frequency ranges:

L : from 7 minutes to 1 Hz

M : from 0.1 Hz to 35 Hz

H : from 2.5 Hz to 800 Hz

Five waveforms available simultaneously:

Sine

Triangle

Saw

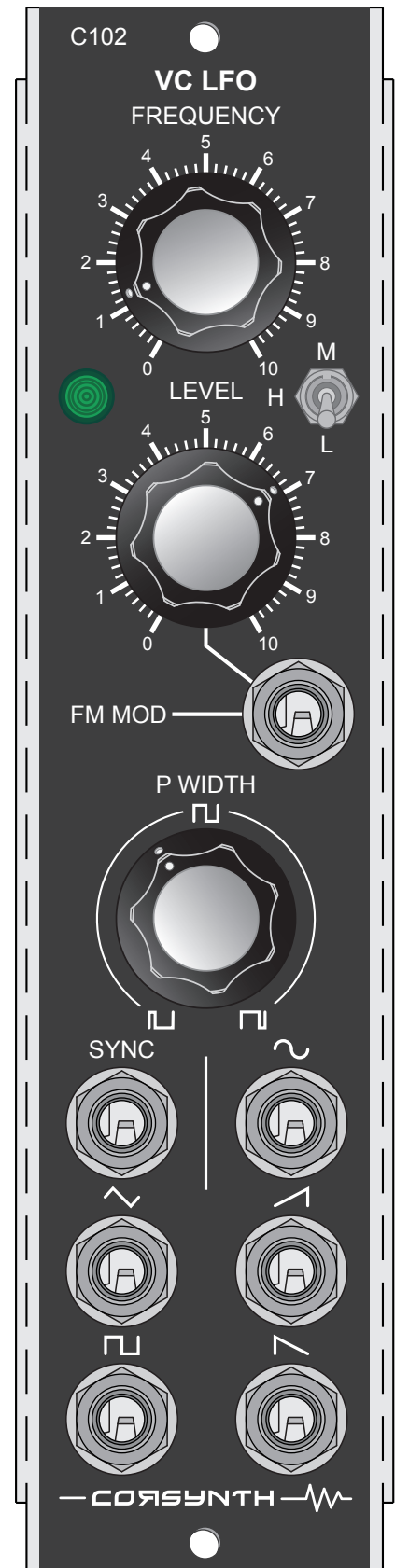
Inverse Saw

Pulse (with variable pulse width)

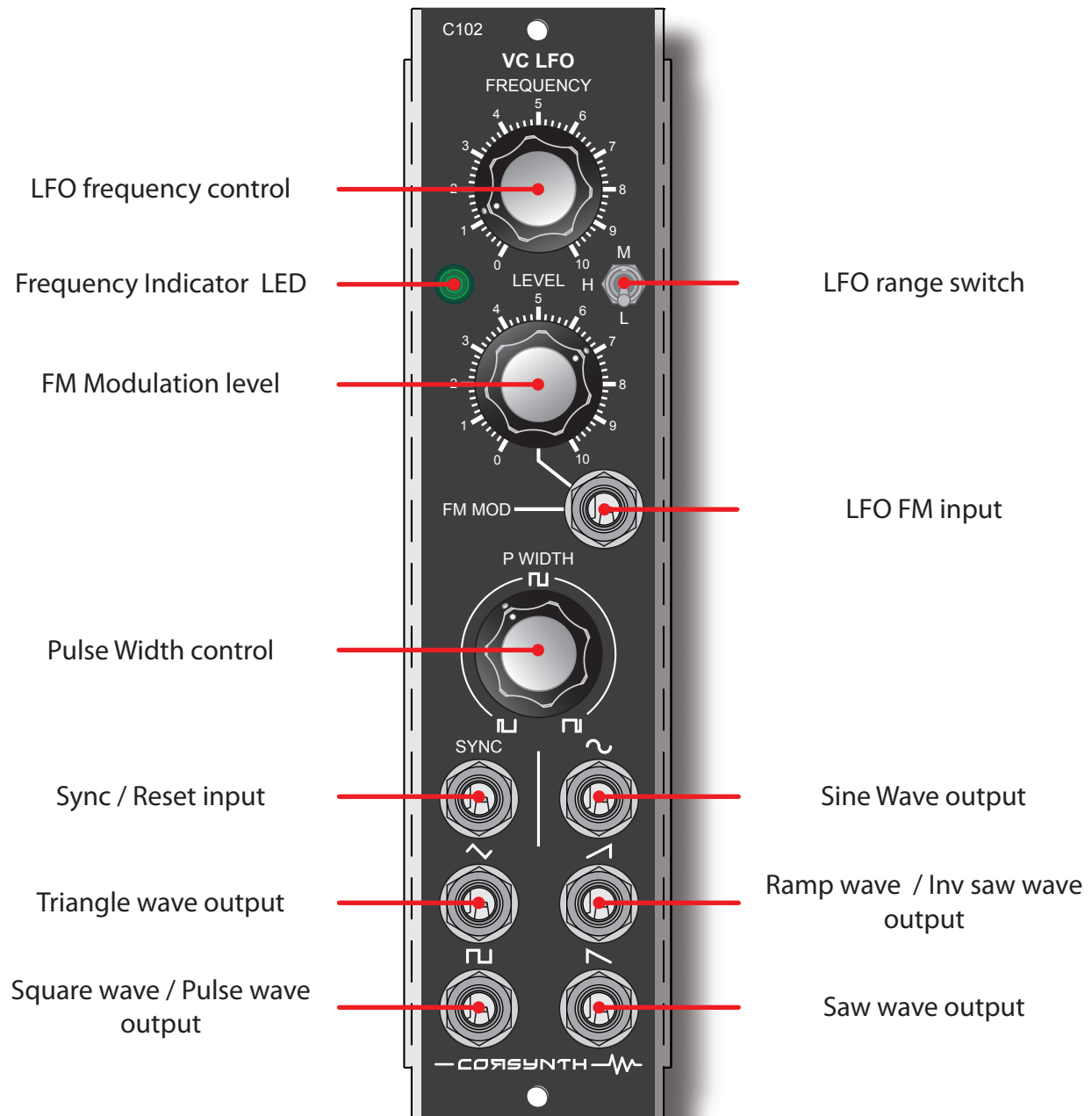
Sync/Reset input

Frequency Modulation input with attenuator

Pulse Width control



FRONT PANEL



CONTROL DESCRIPTION



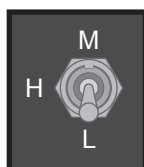
FREQUENCY

This control sets the LFO frequency. The maximum and minimum frequency will depend on which range is selected.



LED

Frequency indicator



LFO RANGE SWITCH

LFO range selector :

L : from 7 minutes to 1Hz

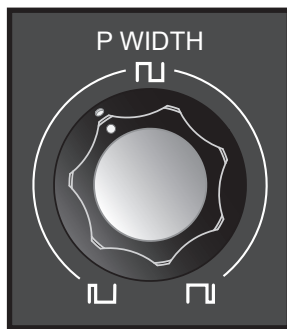
M : from 0,1Hz to 35Hz

H : from 2,5Hz to 800Hz



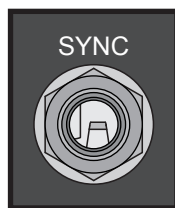
FM MOD

Frequency modulation input. The **LEVEL** potentiometer sets the amount of modulation. The input accepts positive and negative signals. With this control is possible to expand the LFO ranges from 12 minutes to 1,3 KHz .



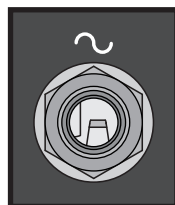
P WIDTH

Pulse Width control.

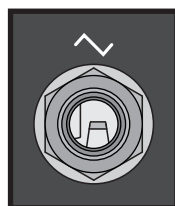


SYNC

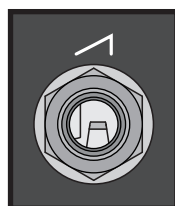
Sync / Reset input. Every time a trigger signal is detected, the LFO will restart the waveform to the beginning of its cycle.



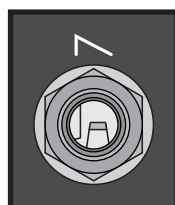
Sine wave output



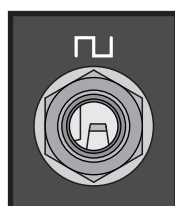
Triangle wave output



Ramp / Inverse Saw Wave Output

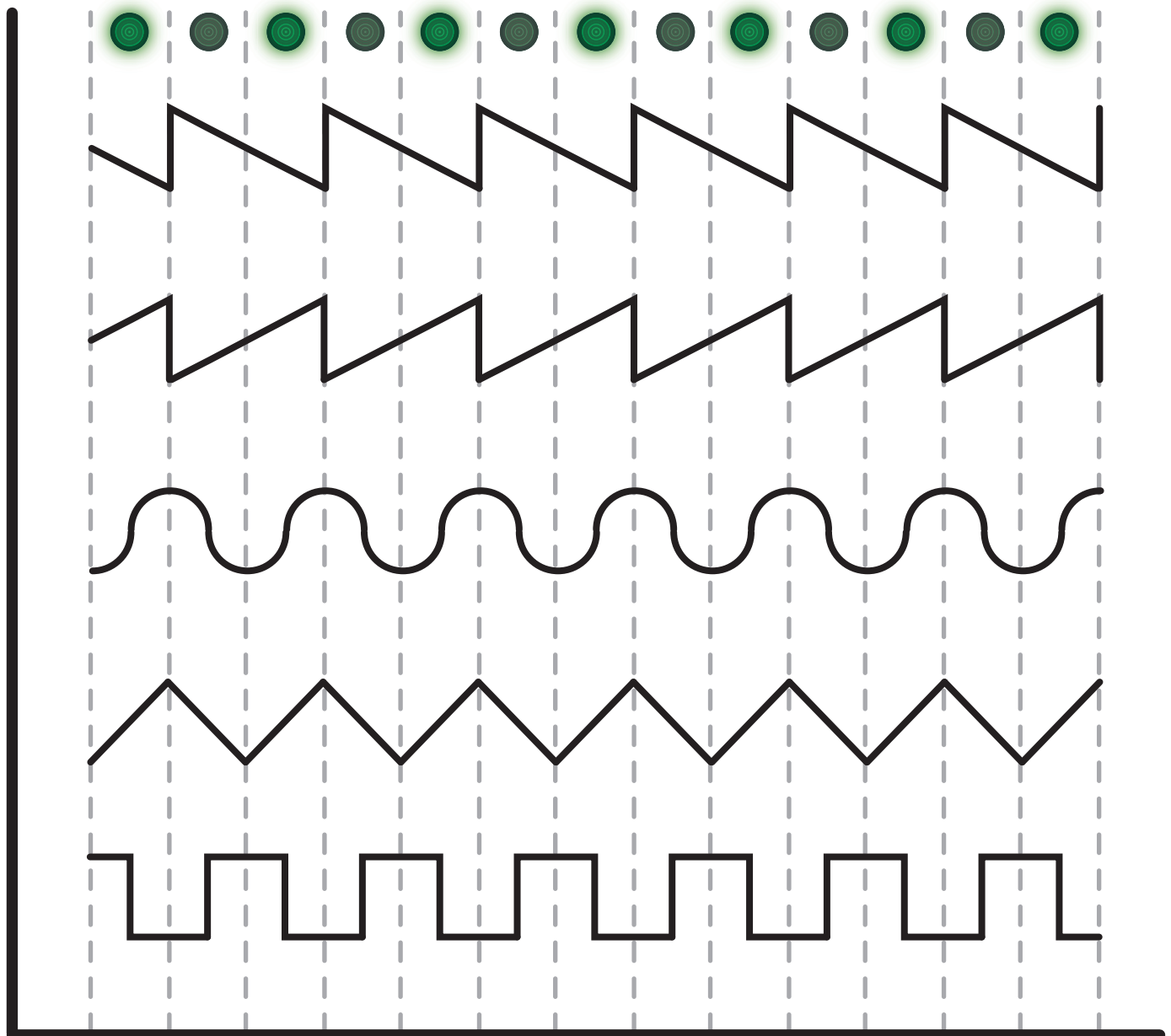


Saw Wave Output



Square / Pulse Wave Output

OUTPUT PHASE RELATION



Led On



Led Off

POWER CONNECTORS AND TRIMMERS

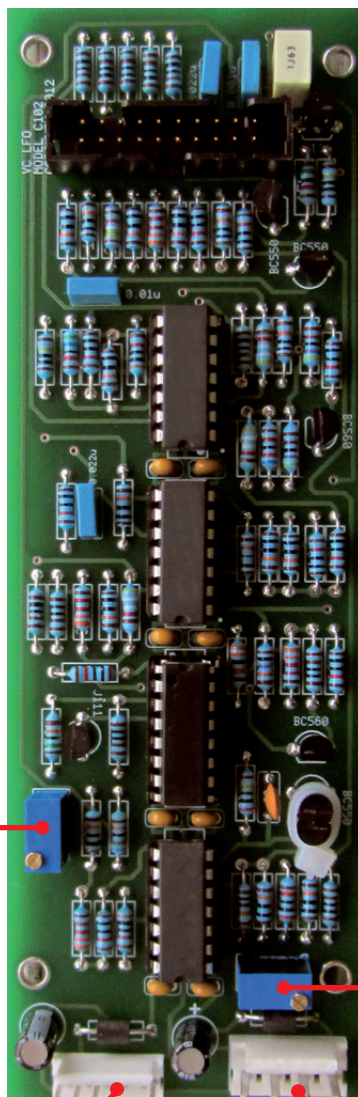


IMPORTANT !!!!

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.

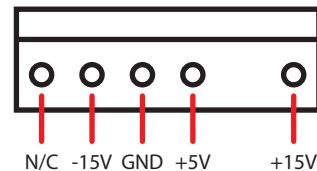
Saw wave
trimmer

Synthesizers.com
power connector

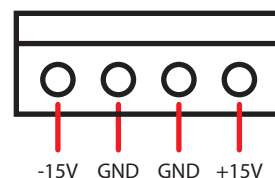


POWER CONNECTOR POLARITY

Synthesizers.com



MOTM



Minimum frequency
trimmer

MOTM
power connector

TECHNICAL DATA

Module Format : 5U, (Synthesizers.com, Moog)

Module Width : 1 MU (Moog unit)

Power : +15V@33,1mA (with LED on), -15V@23,9mA (with LED on)

Power connectors : Synthesizers.com , MOTM (4 pin)

Frequency range : 7 minutes – 850Hz (12 minutes - 1,3KHZ with CV control)

Signal level : 10Vpp (+/- 5V)

