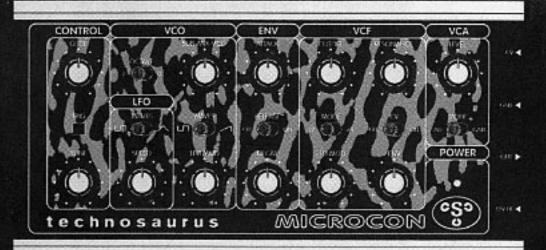
MICROCON CSP

(Version 2.0)

monophonic analog synthesizer



swiss premium quality

OWNERS MANUAL

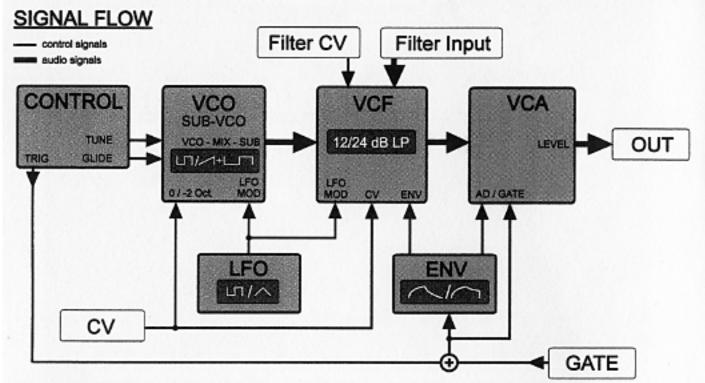
All descriptions of the product may be subject to change without notice:

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INTRO

We congratulate you for purchasing this **real** analog synthesizer. The **MICROCON**s are hand made in Switzerland. The most important sections are built out of single, non-integrated components, i.e. **discrete**. The new series 2.0 **MICROCON** serves as both analog synthesizer and filterbox for external audio signals!



FUNCTIONS

(CONTROL)

GLIDE This knob determines the time in which the VCO glides from one note to the next.

When set to the minimum, the tone jumps to the following note without gliding.

TRIG Button for manually triggering the Envelope Generator (ENV) and therefore the actual

sound. When pressed continuously, it prevents the Envelope from starting with a new

Gate signal. So this button can produce a "legato"-play.

TUNE Master Tune of the MICROCON, to adjust its pitch to other instruments.

(vco) Voltage controlled oscillator. The actual sound source of the synthesizer.

One Volt fed at the CV input changes the pitch by one octave.

The sound sources can also be switched off. See chapter Advanced Connections.

OCTAVE Switches the master tune down by two octaves.

SUB-MIX-VCO In addition to the VCO, the MICROCON offers another sound source: the Sub-Oscillator (SUB). It is a rectangular wave, one octave under the VCO's pitch. Here a mix of both waves can be regulated: Pure SUB (left); Combination SUB/VCO (middle); Pure VCO (right).

MICROCON by technosaurus



WAVES Your choice of the VCO-waveform: rectangular ⊔⊓ or sawtooth ✓

LFO MOD Sets the amount of LFO-modulation for both the VCO and the SUB-Oscillator.

Low Frequency Oscillator. Can modulate the cutoff-frequency or the pitch.

WAVES One of the two waveforms, rectangular ⊔⊓ or triangle ∧ can be selected.

SPEED Determines the frequency of the LFO. It ranges from long waves through to

frequencies in the audio range.

Envelope Generator, responsible for the lapse of the sound. In order to modulate the volume, the switch in the VCA section should be in ON position.

ATTACK Length of the attack time after key depression or Gate signal input.

RELEASE Switches the release time ON or OFF. The time is the same as the adjusted decay

time and starts when the key is released.

DECAY Decay time while key depressed.

Voltage Controlled Filter. This section of the MICROCON has the greatest impact

on the sound.

VCF

CUTOFF Determines the border frequency, above which higher frequencies are damped.

RESONANCE Regulates the degree of amplification at the cutoff frequency.

MODE Choose the slope with which the frequencies above the cutoff frequency are

damped: 12 dB/Octave, the rather open and soft character or 24 dB/Octave,

the variant with more pressure.

CV When set in the ON position, the VCF is modulated by the CV:

The filter opens with increasing pitch.

LFO MOD Adjusts the amount of LFO-modulation for the filter cutoff frequency.

Wah-wah-effects are easy to realize.

ENV Sets the amount, with which the Envelope modulates the cutoff.

(VCA) Voltage Controlled Amplifier. Last section in the signal path.

LEVEL Determines the volume of the audio signal.

MODE This switch defines whether the Envelope (AD) or the connected Gate-signal

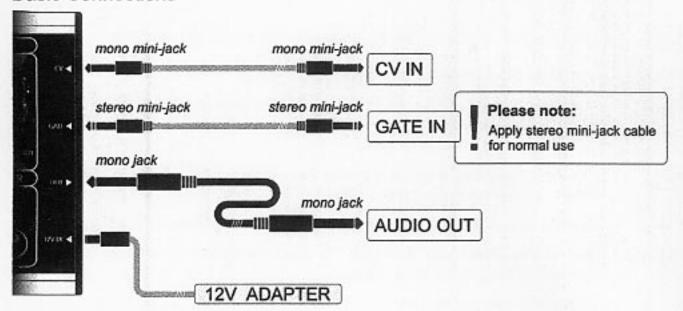
(GATE) modulates the volume.

POWER) The shining of the diode (LED) confirms that the MICROCON is switched on.

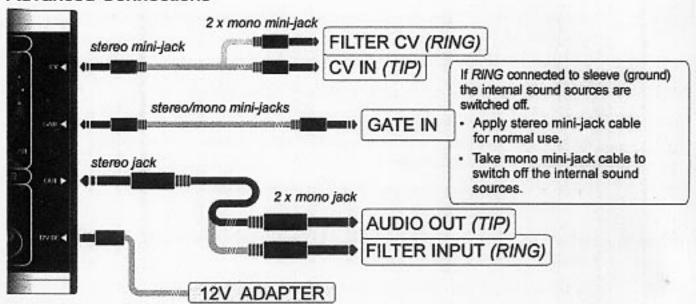


CONNECTIONS

Basic Connections



Advanced Connections



SPEZIFICATIONS

TUNE 440 Hz in mid position VCF 12 or 24 dB/Octave Lowpass-Filter

+/- 5 halftones

VCA Typ. output voltage + 1,7 Vpp (□□)

VCO 1V/Octave

CV= 0 V, MIX at SUB, POWER 12-15 V DC, 38 mA (+/- 5 mA)

OCTAVE at -2 : approx. 16 Hz CV= + 5 V, MIX at VCO,

OCTAVE at 0 : approx. 4'200 Hz DIMENSIONS 208x103x53 mm WEIGHT 550 g