AQA ElektriX - Quadrature Low Frequency Oscillator

About

The AQA Quadrature LFO is generating an sine wave and 3 phase-shifted copies of it:
by 90° (cosine), 180° (inverted sine) and 270° (inverted cosine).
The frequency of the LFO can be voltage controlled, the CV input is attenuverted.
You can use the LFO in a wider frequency range, from very low oscillations up to above the audio range. There is another CV-input, which let´s the LFO to be pitched by volt/octave, the tracking is quite ok over 2-3 octaves. A interesting possibility is to patch an output of the module to the Rate CV input, so you can create new waveforms that way while still controlling the Lfo by the V/Oct. Input. Using more than one module, you can create complicated and interesting output waveforms, up to pseudo-chaotic signals, escpecially, when 2 or more LFO´s modulating each other by pitch.

Intro

The AQA ElektriX Quadrature LFO generates sine, cosine and inverted copies of both. It´s voltage controlled and has a V/Oct. Input.

Features

- generates a sine wave and 3 phase shifted copies of it: 90°, 180°, 270°
- frequency can be manually controlled
- frequency can be controlled by an external control voltage
- 3 frequency ranges selectable by switch
- frequency range from less than a Hz beyond the audible range

Functions

CV Input jack	-	Input for CV for frequency control, attenuated by CV Pot
V/Oct Input jack	-	Input for CV in Volt/Octave Range, unattenuated
Sin Out jack 0°	-	Output for the unshifted sine wave
Cos Out jack 90°	-	Output for the 90° shifted sine wave / cosine
Inv Sin Out jack 180°	-	Output for the 180° shifted sine wave / inv. Sine
Inv Cos Out jack 270°	-	Output for the 270° shifted cosine wave / inv. Cosine
Frequency Range Switch	-	switches between 3 frequency ranges
Rate Knob	-	controls the LFO´s frequency
CV Attenuator	-	attenuates the CV going into the CV input jack

Measures

- 8TE

Power consumption

- on -12V: varying dependent on frequency; ca. 12-28 mA
on +12V: varying dependent on frequency; ca. 12-28 mA

AQA ElektriX

Euro Rack Sized Synthesizer Modules
Made and Loved in Berlin