

# Grp Synthesizer®



## A little great analog Synthesizer

# A2

### Controlled Oscillator 1, 2

Wide audio range (32'-2') w. Tune & Fine

Five analog waveforms (Triangle, Triangle & Saw summed, Saw, Saw & Variable Pulse summed, Variable Pulse); SuperSaw and SuperTriangle (only VCO2)

manual PW & PWM;

FM Exp w. Amt (from VCLFO1, LFO2, VCO1, 2, Noise, RM, S&H, EG1, EG2, Aft, ModW, VCF Out) w. phase rev

Hard sync (VCO 1 master)

Kybd on/off

### Ring Modulator

Ring Mod Sources: VCO1 & VCO2.

### Noise Generator

White Noise.

### Audio Mixer

Separate level controls for VCO 1, 2, Ring Mod, Noise.

[www.grpsynthesizer.it](http://www.grpsynthesizer.it)

Grp Synthesizer is an Italian Firm that plans and constructs analogical Synthesizers of the highest workmanship. The Grp Synthesizer products are completely hand-assembled and are the link between technology and handcraft, worthy heirs of lute players translated into modern technology. It is important for us to keep constant, in the long run, the sound and designs characteristics so to render unique the Grp Synthesizer and to maintain high quality, also for the future entry level models. The Firm philosophy aims at projecting this engagements in the business so as to guarantee the maximum satisfaction to the client.



# A little great analog Synthesizer

# A2

## Filter Section

12 dB/Oct State Variable

Mode (12dB HP, 6 dB BP, 12 dB LP, 6 dB Notch)

Cutoff Frequency; Resonance

FM Amt (from VCLFO1, LFO2, VCO 1, 2, Noise, RM, S&H, EG2, Aft, ModW, Bend)

Kybd Track 0-120%

Distortion.

Filter section can be configured in Direct Out (LP goes on Left Audio Out, HP goes on Right AudioOut).

## Voltage Controlled Amplifier

Dedicated Envelope Generator (see below)

Control Selection (dedicated EG2, ON-hold, External CV)

## Stereo Main

Master Volume, analog Vu-meters.

## Envelope Generator 1

Multi Stage Loopable Env (Attack, Decay, Sustain Lev, Sustain Time-Only in Loop On, Release);

EG Amt

EG time goes from 1msec to 20 sec.

Loop Envelope: loop from Attack to Release, w. Sustain Time selectable.

Loop Mode Switch: Loop Off: EG as standard ADSR, no Sustain Time.

Gate: EG loops from A to S (w. Sustain Time max 60") as long as Gate is On.

Auto: EG full loop, from A to R; independent from Gate.

## Envelope Generator 2

Attack ,Decay/Release

## Voltage Controlled Low Frequency 1

Frequency (from very low to 2500 Hz)

Waveform (Square, Triangle, Saw, Ramp)

FM Amt , FM Sources (Key, LFO)

Key Sync (Off - On)

Shaping LFO out (from: Hold,Aft,ModW)

## Voltage Controlled Low Frequency 2

Frequency

Freq Range (Low-Mid-High)

Waveform (Triangle, Square)

Shaping Select (Hold, Aft, ModW)

Independent Send Modulations for: VCO 1, 2; VCF Cutoff.

## Sample & Hold

Frequency

Frequency Source (Int, Gate,Ext)

LED Frequency

S&H Source (Noise, LFO2)

The S&H Clock can be routed to EG firing; there are three options: Off - no routing; Gate - the S&H clock is ANDed with keyb/ext/manual Gate; Auto - EGs always fired from S&H.

## Tuning - Midi

Master Tune

Portamento Time

Bend Amount

VCO 1 Portamento On/Off

VCO 1 Bend On/Off

Hold On/Off

Midi to CV On/Off

MIDI Interface: MIDI channel set at Power-On w. First MIDI Note received

A2 receives: MIDI Note On/Off, Bend, Modulation, Aftertouch, Damper, MIDI Clock.

## Arpeggiator

Frequency and PW Gate (Legato/Staccato)

Controls Run/Stop user's selectable,

Hold Mode for latching arpeggio

Selectable Advance Mode (Up, Down, U/D, Random);

Arpeggio Step Repeat (1x no repeat, 2x, 3x);

Arpeggio Octave Range (x1, x2, x3, x4)

Arpeggio Clock Source Selectable (Internal, External Analog Pulse, MIDI Clock)

Arpeggio Step Size (quarter note, eighth note, sixteen note)

## Connections

Audio: Stereo Phones Out; Left/LP Out; Right/HP Out.

CV Control In 1: Tip = Filter Cutoff CV In / Ring = LFO 1 Rate CV In

CV Control In 2: Tip = Amp Level CV In / Ring = VCO 2 Frequency CV In

External Analog Keyboard In: CV 1 (1V/Oct), Gate In (0/+5V)

ARP/S&H Clock In: External Clock In



Price  
€ 1.200 plus VAT

Grp Synthesizer®