

# ARP QUADRA SPECIFICATION

## Programmable Synthesizer

### VCO (BASS)

Frequency Range: 65Hz to 250Hz  
Waveform: Pulse

### VCO (LEAD)

Frequency Range: 16Hz to 16KHz  
Waveforms: Sawtooth, Square, 10% Pulse  
Maximum Vibrato Depth: Approximately  $\pm$  1 semitone  
Maximum Trill Depth: 5 octaves  
Pulse Width Modulation Range: 10% mode, 25% - 60%  
50% mode, 60% - 80%

### VCF (POLY SYNTH)

Type: Low Pass, 24db/octave  
Frequency Range: 16Hz to 16KHz  
Resonance: Maximum usable Q=30  
ADSR Sweep: Minimum 5 octaves, Maximum 8 octaves

### VCF (LEAD)

Specifications similar to above except:  
ADSR Sweep: Minimum 2 octaves, Maximum 8 octaves

### ENVELOPE GENERATOR (BASS)

Maximum Decay Time: 5 seconds

### ENVELOPE GENERATOR (STRINGS)

Maximum Attack Time: 6 seconds  
Maximum Release Time: Variable option, 3 seconds  
Preset option, 1 second

### ENVELOPE GENERATOR (POLY SYNTH)

Maximum Attack Time: 1 second  
Maximum Decay Time: Variable option, 2 seconds  
Preset option, 2 seconds  
Maximum Sustain Level: Variable option, 3V  
Preset option, 3V  
Maximum Release Time: 3 seconds

### ENVELOPE GENERATOR (LEAD)

Maximum LFO Modulation:  $\pm$ 1 octave  
Maximum Attack Time: 1 second  
Maximum Decay Time: SUST LOW off, .4 seconds  
SUST LOW on, 2 seconds  
Maximum Release Time: 2.5 seconds

### PORTAMENTO

Minimum Speed: 1.5 seconds/octave

# ARP QUADRA SPECIFICATION

## Programmable Synthesizer

### LFO

Frequency Range: 0.5Hz to 15Hz  
Waveforms: Sine, Square (via S/H)

### S/H

Max. Frequency Deviation in Phase Shifter: 1 octave

### TRILL

Trill Speed Range: 2Hz to 20Hz

### TOUCH SENSOR

Maximum Pitch Deviation: +3 semitones

### PHASE SHIFTER

Sweep Speed Range: 0.1Hz to 5Hz

### INTERFACE JACKS

CV IN/OUT: 1V/octave  
GATE IN: Minimum 2.5V(Lead & Bass)  
GATE OUT: Approximately 10V (Lead & Bass)  
TRIG IN: 8V Pulse, 10 microseconds minimum duration  
TRIG OUT: 10V Pulse, 60 microseconds duration

### EXTERNAL AUDIO IN

Input Specifications: 7V input = 5V maximum output

### AUDIO OUTPUTS

Impedance: 680 ohms, all audio outputs

### MONO OUT (XLR & ¼" phone):

High = 10V P-P maximum  
Low = 1V P-P maximum

### QUAD OUT

Bass = 5V P-P maximum  
Strings = 10V P-P maximum  
Poly Synth = 12V P-P maximum  
Lead = 3V P-P maximum

### STEREO OUT (Left & Right):

= 10V P-P maximum