Synth

Waldorf Pulse

68 parameters · 13 sections · plain CC, no NRPN · transcribed from the maker's manual

Channels

One MIDI channel, set in the Global menu. The Pulse and the Pulse+ share this map.

Mod units

The four Mod Units are the machine's modulation matrix: Source, Amount and Destination for each slot, on CC 108 to 119. Source and Destination are wiring. Turning them points a modulation somewhere else; it does not sweep a sound.

OSC 1	4
Semitone	32
Tune	33
Shape	34
PW	35

OSC 2	6
Semitone	36
Tune	37
Shape	38
PW	39
Keytrack	40
Sync	41

OSC 3	3
Semitone	42
Tune	43
Shape	44

Mixer	4
Osc 1 Level	45
Osc 2 Level	46
Osc 3 Level	47
Noise Level	48

Filter	7
Cutoff	50
Resonance	56
Cutoff Keytrack	51
Cutoff Env1 Sens	52
Cutoff Velo Sens	53
Cutoff Mod Source	54
Cutoff Mod Amount	55

Amp	2
Volume	57
Volume Velo Sens	58

Env 1	6
Attack	14
Decay	15
Sustain	16
Release	17
Keytrack	28
Trigger	29

Env 2	6
Attack	18
Decay	19
Sustain	20
Release	21
Keytrack	30
Trigger	31

LFO	4
LFO 1 Speed	24
LFO 1 Shape	25
LFO 2 Speed	26
LFO 2 Delay	27

Pitch	5
Pitch Mod Source	60
Pitch Mod Amount	61
Portamento Time	5
Portamento Mode	62
Pitchbend Scale	63

Arp	5
Active	102
Range	103
Clock	104
Tempo	105
Mode	106

Mod units	12
1 Source	108
1 Amount	109
1 Destination	110
2 Source	111
2 Amount	112
2 Destination	113
3 Source	114
3 Amount	115
3 Destination	116
4 Source	117
4 Amount	118
4 Destination	119

Mix	4
Main Volume	7
Panning	10
Mod wheel	1
Breath	2

These controls as knobs on your iPhone or iPad
Sequentia has this chart built in, with a looper for knob movement and tempo-locked LFOs on any CC.
synthycraft.com/l/sequentia