

MIDI CONTROLLER Assignments

Ctrl.No.	Range	Parameter	Value Range	Remarks
0	0...1	Bank Select	0...1	0: Bank A, 1: Bank B
1	0...127	Modulation Wheel	0...127	
5	0...127	Portamento Time	0...127	
7	0...127	Channel Volume	0...127	
10	0...127	Panorama	-64...0... 63	Left..Center..Right
17	0...127	Osc1 Shape	-64...0... 63	Wave..Saw..Pulse
18	0...127	Osc1 Pulsewidth	0...127	
19	0...64	Osc1 Wave Select	0...64	Sine, Triangle, Wave 3..64
20	0...127	Osc1 Semitone	-64... 63	
21	0...127	Osc1 Keyfollow	-64... 63	Default: 32
22	0...127	Osc2 Shape	-64...0... 63	Wave..Saw..Pulse
23	0...127	Osc2 Pulsewidth	0...127	
24	0...64	Osc2 Wave Select	0...64	Sine, Triangle, Wave 3..64
25	0...127	Osc2 Semitone	-64... 63	
26	0...127	Osc2 Detune	0...127	
27	0...127	Osc2 FM Amount	0...127	
28	0...1	Osc2 Sync	0...1	0:Off 1:On
29	0...127	Osc2 Filt Env Amt	-64... 63	
30	0...127	FM Filt Env Amt	-64... 63	
31	0...127	Osc2 Keyfollow	-64... 63	Default: 32
32	0...1	Bank Select	0...1	0: Bank A; 1: Bank B
33	0...127	Osc Balance	-64... 63	Osc1..Osc1 2..Osc2
34	0...127	Suboscillator Volume	0...127	
35	0...1	Suboscillator Shape	0...1	0:Square 1:Triangle
36	0...127	Osc Mainvolume	0...127	
37	0...127	Noise Volume	0...127	
40	0...127	Cutoff	0...127	
41	0...127	Cutoff2	-64... 63	
42	0...127	Filter1 Resonance	0...127	
43	0...127	Filter2 Resonance	0...127	
44	0...127	Filter1 Env Amt	0...127	
45	0...127	Filter2 Env Amt	0...127	
46	0...127	Filter1 Keyfollow	-64... 63	
47	0...127	Filter2 Keyfollow	-64... 63	
48	0...127	Filter Balance	-64... 63	
49	0...6	Saturation Curve	0...6	0:Off 1:Light 2:Soft 3:Middle 4:Hard 5:Digital 6: Shaper
51	0...3	Filter1 Mode	0...3	0:LP 1:HP 2:BP 3:BS
52	0...3	Filter2 Mode	0...3	0:LP 1:HP 2:BP 3:BS
53	0...3	Filter Routing	0...3	0:Ser 4 1:Ser 6 2:Par 4 3:Split
54	0...127	Filter Env Attack	0...127	
55	0...127	Filter Env Decay	0...127	
56	0...127	Filter Env Sustain	0...127	
57	0...127	Filter Env Sustain Time	-64... 63	Fall...Infinite...Rise
58	0...127	Filter Env Release	0...127	

59	0...127	Amp Env Attack	0...127	
60	0...127	Amp Env Decay	0...127	
61	0...127	Amp Env Sustain	0...127	
62	0...127	Amp Env Sustain Time	-64... 63	Fall...Infinite...Rise
63	0...127	Amp Env Release	0...127	
64	0...127	Hold Pedal		
67	0...127	Lfo1 Rate	0...127	
68	0...5	Lfo1 Shape	0...5	0:Sine 1:Tri 2:Saw 3:Square 4:S H 5:S G
69	0...1	Lfo1 Env Mode	0...1	0:Off 1:On
70	0...1	Lfo1 Mode	0...1	0:Poly 1:Mono
71	0...127	Lfo1 Symmetry	-64... 63	
72	0...127	Lfo1 Keyfollow Amt	0...127	
74	0...127	Osc1 Lfo1 Amount	-64... 63	
75	0...127	Osc2 Lfo1 Amount	-64... 63	
76	0...127	PW Lfo1 Amount	-64... 63	
77	0...127	Reso Lfo1 Amount	-64... 63	
78	0...127	FiltGain Lfo1 Amount	-64... 63	
79	0...127	Lfo2 Rate	0...127	
80	0...5	Lfo2 Shape	0...5	0:Sine 1:Tri 2:Saw 3:Square 4:S H 5:S G
81	0...1	Lfo2 Env Mode	0...1	0:Off 1:On
82	0...1	Lfo2 Mode	0...1	0:Poly 1:Mono
83	0...127	Lfo2 Symmetry	-64... 63	
85	0...127	Lfo2 Keytrigger	0...127	0:Off,1..127 Keytrigger Phase
86	0...127	OscShape Lfo2 Amount	-64... 63	
87	0...127	FmAmount Lfo2 Amount	-64... 63	
88	0...127	Cutoff1 Lfo2 Amount	-64... 63	
89	0...127	Cutoff2 Lfo2 Amount	-64... 63	
90	0...127	Panorama Lfo2 Amount	-64... 63	
91	0...127	Patch Volume	0...127	
93	0...127	Transpose	-64... 63	
94	0...4	Key Mode	0...4	0:Poly 1..4: Mono1-4
97	0...1	Twin Mode	0...1	0:Off 1:On
98	0...127	Twin Detune	0...127	
99	0...127	Panorama Spread	0...127	
100	0...127	Twin Lfo Phase	-64... 63	
101	0...2	Input Mode	0...2	0:Off 1:Dynamic 2:Static
102	0...8	Input Select	0...8	0:In1L 1:In1L R 2:In1R ...
105	0...127	Chorus Mix	-64... 63	
106	0...127	Chorus Rate	0...127	
107	0...127	Chorus Depth	0...127	
108	0...127	Chorus Delay	0...127	
109	0...127	Chorus Feedback	0...127	
110	0...127	Chorus Lfo Shape	0...5	0:Sine 1:Tri 2:Saw 3:Square 4:S H 5:S G
113	0...127	Effect Send	0...127	

114	0...127	Delay Time	0...127	
115	0...127	Delay Feedback	0...127	
116	0...127	Delay Rate	0...127	
117	0...127	Delay Depth	0...127	
118	0...5	Delay Lfo Shape	0...5	0:Sine 1:Tri 2:Saw 3:Square 4:S H 5:S G
123	0	All Notes Off		

POLY PRESSURE CONTROLLER Assignments

1	0...4	Arp Mode	0...4	0:Off 1:Up 2:Down 3:Up Down 4:AsPlayed
3	0...3	Arp Octave Range	0...3	
7	0...127	Lfo3 Rate	0...127	
8	0...5	Lfo3 Shape	0...5	0:Sine 1:Tri 2:Saw 3:Square 4:S H 5:S G
9	0...1	Lfo3 Mode	0...1	0:Poly 1:Single
10	0...127	Lfo3 Keyfollow	0...127	
11	0...5	Lfo3 Destination	0...5	0:Osc1 1:Osc1 2 2:Osc2 3:PW1 4:PW1 2 5:PW2
12	0...127	Osc Lfo3 Amount	0...127	
13	0...127	Osc ModWhl Amount	0...127	
16	0...127	Clock Tempo	0...127	62...190 BPM
17	0...9	Arp Clock	0...9	1/32...1/1, 3/32...3/4
18	0...10	Lfo1 Clock	0...10	Off, 1/32...1/1, 3/32...3/4
19	0...10	Lfo2 Clock	0...10	Off, 1/32...1/1, 3/32...3/4
20	0...10	Delay Clock	0...10	Off, 1/32...1/1, 3/32...3/4
26	0...127	Bender Range Up	-64... 63	
27	0...127	Bender Range Down	-64... 63	
28	0...1	Bender Scale	0...1	0:Linear 1:Exponential
30	0...1	Filter1 Env Polarity	0...1	0:Negative 1:Positive
31	0...1	Filter2 Env Polarity	0...1	0:Negative 1:Positive
32	0...1	Filter2 Cutoff Link	0...1	0:Off 1:On
33	0...127	Filter Keytrack Base	0...127	C-1..G9
35	0...127	Osc Init Phase	0...127	0:Off 1..127
36	0...127	Punch Intensity	0...127	
47	0...127	Osc1 Shape Velocity	-64... 63	
48	0...127	Osc2 Shape Velocity	-64... 63	
49	0...127	PulseWidth Velocity	-64... 63	
50	0...127	Fm Amount Velocity	-64... 63	
52	0...127	Filter1 EnvAmt Velocity	-64... 63	
53	0...127	Filter1 EnvAmt Velocity	-64... 63	
56	0...127	Resonance1 Velocity	-64... 63	
57	0...127	Resonance2 Velocity	-64... 63	
60	0...127	Amp Velocity	-64... 63	
61	0...127	Panorama Velocity	-64... 63	

62	0...83	Definable1	see Definable List
63	0...83	Definable2	see Definable List
64	0...18	Assign1 Source	see Assign Sources List
65	0...83	Assign1 Destination	see Assign Destinations List
66	0...127	Assign1 Amount	-64... 63
67	0...18	Assign2 Source	see Assign Sources List
68	0...83	Assign2 Destination1	see Assign Destinations List
69	0...127	Assign2 Amount1	-64... 63
70	0...83	Assign2 Destination2	see Assign Destinations List
71	0...127	Assign2 Amount2	-64... 63
72	0...18	Assign3 Source	see Assign Sources List
73	0...83	Assign3 Destination1	see Assign Destinations List
74	0...127	Assign3 Amount1	-64... 63
75	0...83	Assign3 Destination2	see Assign Destinations List
76	0...127	Assign3 Amount2	-64... 63
77	0...83	Assign3 Destination3	see Assign Destinations List
78	0...127	Assign3 Amount3	-64... 63