

# Anexo 1

## Tabla de Comandos MIDI

Dec	Hex	MIDI Control Numbers	Dec	Hex	MIDI Control Numbers	Dec	Hex	MIDI Control Numbers	
1	1	Modulation Wheel or Vibrato (low half)	33	21	Modulation Wheel or Vibrato (high half)	64	40	Damper pedal [sustain]	
2	2	Breath Controller (low half)	34	22	Breath Controller (high half)	65	41	Portamento	
4	4	Foot Controller (low half)	36	24	Foot Controller (high half)	66	42	Sostenuto [chord hold]	
5	5	Portamento Time (low half)	37	25	Portamento Time (high half)	67	43	Soft pedal	
6	6	Data Entry [master tune] (low half)	38	26	Data Entry [master tune] (high half)	69	45	Hold 2	
7	7	Main Volume (low half)	39	27	Main Volume (high half)	80-83	50-53	General purpose controllers #5-8	
8	8	Balance (low half)	40	28	Balance (high half)	91	5B	Other external effects	
10	A	Pan (low half)	42	2A	Pan (high half)	92	5C	Tremolo depth	
11	B	Expression Controller (low half)	43	2B	Expression Controller (high half)	93	5D	Chorus depth	
17	11	General purpose controller #1 (low half)	49	31	General purpose controller #1 (high half)	94	5E	Celeste [detune] depth	
18	12	General purpose controller #2 (low half)	50	32	General purpose controller #2 (high half)	95	5F	Phaser depth	
19	13	General purpose controller #3 (low half)	51	33	General purpose controller #3 (high half)	96	60	Data Increment	
20	14	General purpose controller #4 (low half)	52	34	General purpose controller #4 (high half)	97	61	Data Decrement	
			48	60	72	84	96	108	120
			49	61	73	85	97	109	121
			50	62	74	86	98	110	122
			51	63	75	87	99	111	123
			52	64	76	88	100	112	124
			53	65	77	89	101	113	125
			54	66	78	90	102	114	126
			55	67	79	91	103	115	127
			56	68	80	92	104	116	
			57	69	81	93	105	117	
			58	70	82	94	106	118	
			59	71	83	95	107	119	

  

Bin	Dec	Hex												
0000	0	0	0010	10	A	0100	16	10	1010	26	1A	1100	36	24
0001	1	1	0011	11	B	0101	17	11	1011	27	1B	1101	37	25
0010	2	2	0012	12	C	0102	18	12	1012	28	1C	1110	38	26
0011	3	3	0013	13	D	0103	19	13	1013	29	1D	1111	39	27
0100	4	4	0014	14	E	0104	20	14	1014	30	1E			
0101	5	5	0015	15	F	0105	21	15	1100	36	24			
0110	6	6	0016	16	10	0110	22	16	1101	37	25			
0111	7	7	0017	17	11	0111	23	17	1102	38	26			
1000	8	8	0018	18	12	0112	24	18	1103	39	27			
1001	9	9	0019	19	13	0113	25	19	1104	40	28			
1010	10	A	0020	20	14	0114	26	1A	1105	41	29			
1011	11	B	0021	21	15	0115	27	1B	1106	42	2A			
1100	12	C	0022	22	16	0116	28	1C	1107	43	2B			
1101	13	D	0023	23	17	0117	29	1D	1108	44	2C			
1110	14	E	0024	24	18	0118	30	1E	1109	45	2D			
1111	15	F	0025	25	19	0119	31	1F	1110	46	2E			

  

Dec	Hex	MIDI Control Numbers	Dec	Hex	MIDI Control Numbers
1	1	System exclusive	101	65	Registered parameter (high half)
2	2	Song position	102	66	Registered parameter (low half)
3	3	Song select	103	67	Registered parameter (high half)
4	4	System reset	104	68	Registered parameter (low half)
5	5	Undefined	105	69	Registered parameter (high half)
6	6	Undefined	106	70	Registered parameter (low half)
7	7	Undefined	107	71	Registered parameter (high half)
8	8	Undefined	108	72	Registered parameter (low half)
9	9	Undefined	109	73	Registered parameter (high half)
10	A	Undefined	110	74	Registered parameter (low half)
11	B	Undefined	111	75	Registered parameter (high half)
12	C	Undefined	112	76	Registered parameter (low half)
13	D	Undefined	113	77	Registered parameter (high half)
14	E	Undefined	114	78	Registered parameter (low half)
15	F	Undefined	115	79	Registered parameter (high half)
			116	80	Registered parameter (low half)
			117	81	Registered parameter (high half)
			118	82	Registered parameter (low half)
			119	83	Registered parameter (high half)
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			206	170	Registered parameter (low half)
			207	171	Registered parameter (high half)
			208	172	Registered parameter (low half)
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			211	175	Registered parameter (high half)
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