

AHLBORN®

MANUFACTURER	MODEL	DATE
Ahlborn Orgel	ARCHIVE MODULES	16.06.97

‘ARCHIVE MODULES’ MIDI IMPLEMENTATION CHART

Transmitted Data Midi code	Description	Notes
8n kk 00	Note Off	Sequencer mode only
9n kk 00	Note Off	Sequencer mode only
9n kk 40	Note On	Sequencer mode only
Bn 07 aa	Division Volume	Sequencer mode only
Bn 5C 7F	Tremolo on	
Bn 5C 00	Tremolo off	
Bc 60 dd	Data Increment	Sequencer mode only
Bc 61 dd	Data Decrement	Sequencer mode only
Bn 46 ss	Ahlborn Organs Stops On/Off	Sequencer mode only
Bc 47 ss	Common Functions on/off	see page # 7
Bn 49 rr	Stop On	see pages # 8..11
Bn 4A rr	Stop Off	see pages # 8..11
Bn 7B 00	All Note Off	
Cc pp	Program change	see page # 4
F8	Timing clock	
FA	Start	
FB	Continue	
FC	Stop	
FE	Active Sensing	
F0 7F 7F 04 01 m m F7	Universal Exclusive Messages	Master Volume (Seq. only)
F0 35 xx yy F7	GEM Exclusive Messages	GEM Organs (Seq. only)
F0 2F 00 03 00.....cc F7	FILE DUMP REQUEST	see page # 5
F0 2F 00 01 00.....cc F7	FILE DUMP HEADER	see page # 5
F0 2F 00 02 oo.....cc F7	FILE DUMP DATA	see page # 6

Recognized Data Midi code	Description	Notes
8n kk vv	Note Off	
9n kk 00	Note Off	
9n kk vv	Note On	
Bn 07 aa	Division Volume	
Bn 5C 7F	Tremolo on	
Bn 5C 00	Tremolo off	
Bc 60 dd	Data Increment	
Bc 61 dd	Data Decrement	
Bn 46 ss	Ahlborn Organs Stops On/Off	Sequencer mode only
Bc 47 ff	Common Functions on/off	see page # 7
Bn 49 rr	Stop On	see pages # 8..11
Bn 4A rr	Stop Off	see pages # 8..11
Bn 7B 00	All Note Off	
Cn pp	Program change	see page # 4
F8	Timing clock	
FA	Start	
FB	Continue	
FC	Stop	
FE	Active Sensing	
F0 7F 7F 04 01 m m F7	Universal Exclusive Messages	Master Volume (Seq. only)
F0 35 xx yy F7	GEM Exclusive Messages	GEM Organs
F0 2F 00 03 00.....cc F7	FILE DUMP REQUEST	see page # 5
F0 2F 00 01 00.....cc F7	FILE DUMP HEADER	see page # 5
F0 2F 00 02 oo.....cc F7	FILE DUMP DATA	see page # 6

LEGENDA	
n	Programmable <u>Divisions</u> Midi Channel #1..16
c	Programmable <u>Common</u> Midi Channel #1..16
vv	Key Velocity : 1...127 (01H...7FH)
kk	Note # : 30...99 (1EH...63H) for Keyboards Note # : 30...70 (1EH...46H) for Pedal
aa	<u>Division</u> Volume Value (0..127)
rr	Archive Stops # (0..7EH)
ss	Ahlborn Organs Stops # (0..7EH) : (00ss ssss = Stop Off), (01ss ssss = Stop On)
ff	Common functions # (00ff ffff = function Off), (01ff ffff = function On)
dd	inc/dec value (0..127)
pp	Program Change # (0..127)
mm	Master volume value
xx	Block selection (GEM organs)
yy	Command selection (GEM organs)

PROGRAM CHANGE Cn pp

pp = (Hex))	pp = (Dec.))	Description
00H	0	Return to handset
01H---06H	1---6	General Combination A1---A6
07H---0CH	7---12	General Combination B1---B6
0DH---12EH	13---18	General Combination C1---C6
13H---18H	19---24	General Combination D1---D6
19H---1EH	25---30	General Combination E1---E6
1FH-63H	31-99	Free (Seq. mode only)
64H	100	Crescendo Off
65H	101	Crescendo 1
66H	102	Crescendo 2
67H	103	Crescendo 3
68H	104	Crescendo 4
69H	105	Crescendo 5
6AH	106	Crescendo 6
6BH	107	Crescendo 7
6CH	108	Crescendo 8
6DH	109	Crescendo 9
6EH	110	Crescendo 10
6FH	111	Crescendo 11
70H	112	Reverberation Off (Seq. mode only)
71H	113	Reverberation Effect #1 (Seq. mode only)
72H	114	Reverberation Effect #2 (Seq. mode only)
73H	115	Reverberation Effect #3 (Seq. mode only)
74H	116	Reverberation Effect #4 (Seq. mode only)
75H	117	Reverberation Effect #5 (Seq. mode only)
76H	118	Reverberation Effect #6 (Seq. mode only)
77H	119	Crescendo 12
78H	120	Crescendo 13
79H	121	Crescendo 14
7AH	122	Crescendo 15
7BH	123	Crescendo 16
7CH	124	Crescendo 17
7DH	125	Crescendo 18
7EH	126	Crescendo 19
7FH	127	Crescendo 20

FILE DUMP REQUEST	
status/data	Description
F0	Status byte
2F	Generalmusic identifier
00	
03	subfunction=3
cc	checksum = XOR from 2F to last byte before cc
F7	End Of File

FILE DUMP HEADER	
status/data	Description
F0	Status byte
2F	Generalmusic identifier
00	
01	subfunction=1
00	
8 bytes	file name (8 bytes=0)
3 bytes	file extension (3 bytes=0)
1bytes	file flags=0
2bytes	TIME=0
2bytes	DATE=0
2bytes	LENGHT=0
1byte	HLENGHT : used
1byte	LLENGHT : used
1byte	Classification = 06H -> Classical Organs
1byte	Subclass=10H-> ARCHIVE MODULE
1byte	Release=01H
1byte	File type=01H...04H --> (1=.COM, 2=.FIN, 3=.SEQ, 4=.ALL)
1byte	format of file type = 01H
1byte	Release=01H
3bytes	00,00,00
cc	checksum = XOR from 2F to last byte before cc
F7	End Of File

FILE DUMP DATA BLOCK	
status/data	Description
F0	Status byte
2F	Generalmusic identifier
00	
02	subfunction=2
00	
00	octets number=15 -> total Data block = 128 bytes
.	
.	binary data in octets
.	
cc	check sum = XOR from 2F to last byte before cc
F7	End Of File

COMMON FUNCTIONS on/off (Bn 47 ff)			
	Funct. OFF (Hex)	Funct. ON	Functions Name
ff =	00H	40H	General Cancel
	02H	42H	Tutti
	04H	43H	Reeds Cancel
	05H	43H	Mixtures Cancel
	06H	46H	Set or Fiss.
	01H,03H	41H,43H	Sequencer mode only
	07H-3EH	47H-7EH	Sequencer mode only
	3FH	7FH	All Functions OFF/ON

CONTROL CHANGE:	Bn 49 rr	STOPS_ON
	Bn 4A rr	STOPS_OFF

ROMANTIC			
	Stops Code (Hex)	Stops Name	Foot
Pedal Division			
rr =	00H	Contre Gambe	16'
	01H	Ophicleide	16'
	02H	Contre Violone	32'
	03H	Contre Basson	32'
	04H	Coupler A/P	Default code
	05H	Coupler B/P	Default code
A Division			
	06H	Cornopean	16'
	07H	Cornet de Bombardes	IV
	08H	Tuba Mirabilis	8'
	09H	Clairon	4'
	0AH	Orchestral Oboe	8'
	0BH	Clarinet	8'
	0CH	French Horn	8'
	0DH	Cor Anglais	8'
	0EH	Cello	8'
	0FH	Cello Celeste	8'
	10H	Coupler B/A	Default code
B Division			
	11H	Quint Flute	2 2/3'
	12H	Piccolo	2'
	13H	Vox Humana	8'
	14H	Open Diapason	8'
	15H	Flauto Mirabilis	8'
	16H	Concer Flute	4'
	17H	Coupler A/B	Default code
AUX Division			
	18H	Coupler A/AUX	Default code
	19H	Coupler B/AUX	Default code

CLASSIC			
	Stops Code (Hex)	Stops Name	Foot
Pedal Division			
rr =	1AH	Contre Gambe	16'
	1BH	Bombarde	16'
	1CH	Contre Basse	16'
	1DH	Contre Bombarde	32'
	04H	Coupler A/P	Default code
	05H	Coupler B/P	Default code
A Division			
	1EH	Corno di Bassetto	8'
	1FH	Plein Jeu	VI-V
	20H	Clairon	4'
	21H	Festival Trumpet	8'
	22H	Gemshorn Celeste	8'
	23H	Koppelflote	4'
	24H	Bombarde	16'
	25H	Harmonic Trumpet	8'
	26H	Gemshorn	8'
	27H	Flute a Cheminée	8'
	10H	Coupler B/A	Default code
B Division			
	28H	Flute Octavante	4'
	29H	Octave	2'
	2AH	Cymbale	III
	2BH	Principal	8'
	2CH	Holzgedact	8'
	2DH	Flute Harmonique	8'
	17H	Coupler A/B	Default code
AUX Division			
	18H	Coupler A/AUX	Default code
	19H	Coupler B/AUX	Default code

202			
	Stops Code (Hex)	Stops Name	Foot
Pedal Division			
rr =	2EH	Subbass	32'
	2FH	Violone	16'
	30H	Contre Bombarde	32'
	31H	Bombarde	16'
	04H	Coupler A/P	Default code
	05H	Coupler B/P	Default code
A Division			
	32H	Contregambe	16'
	33H	Diapason	8'
	34H	Quintadena	8'
	35H	Terz	1 3/5'
	36H	Septime	1 1/7'
	37H	Sharff	III
	38H	Bombarde	16'
	39H	Trompette	8'
	3AH	Tuba Mirabilis	8'
	3BH	Chimes	
	10H	Coupler B/A	Default code
B Division			
	3CH	Bourdon	8'
	3DH	Flute Harmonique	8'
	3EH	Flute Octaviant	4'
	3FH	Larigot	1 1/3'
	40H	Corno di Bassetto	8'
	41H	Clairon	4'
	17H	Coupler A/B	Default code
AUX Division			
	18H	Coupler A/AUX	Default code
	19H	Coupler B/AUX	Default code

201			
	Stops Code (Hex)	Stops Name	Foot
Pedal Division			
rr =	42H	Subbass	32'
	43H	Octave	8'
	44H	Bourdon	8'
	45H	Posaune	16'
	04H	Coupler A/P	Default code
	05H	Coupler B/P	Default code
A Division			
	46H	Bourdon	16'
	47H	Principal	8'
	48H	Flute a Cheminée	8'
	49H	Unda Maris	8'
	4AH	Octave	4'
	4BH	Spitzflöte	4'
	4CH	Nasard	2 2/3'
	4DH	Superoctave	2'
	4EH	Mixture	IV
	4FH	Trompette	8'
	10H	Coupler B/A	Default code
B Division			
	50H	Gedackt	8'
	51H	Gamba	8'
	52H	Nachthorn	4'
	53H	Sharff	III
	54H	Cornet	III
	55H	Oboe	8'
	17H	Coupler A/B	Default code
AUX Division			
	18H	Coupler A/AUX	Default code
	19H	Coupler B/AUX	Default code
	56H-7EH	Free	
	7FH	All Stops ON/OFF	