

Disposition of the Hyper Organ by Orgelbau Klais 2016/2024

August 12, 2024

General Information

Conception: Prof. Dr. h.c. Christoph Bossert

Intonation: Andreas Saage

Tuning pitch: 443 Hz

Tempering: Bach – Kellner (modified)

For general information about the instrument see klais.de and innovation-orgellehre.digital.

Author of this document and MIDI details: Prof. Dr. Hannes Ritschel

Legend

The tables in this document are structured as follows:

- No: Number printed on the stop tab.
- Name: Underlined names denote primary/ordinary stops. Otherwise, stops of the same name are extensions of the underlined stop or transmissions.
- **A**: Based on Arnstadt, Wender 1703
- **P**: Proportional stop
- From: Pedals (P), Manuals (I/II/III/IV) or Transmissionslade (T).
- Ch: MIDI channel (zero-based, i.e., in range [0; 127])
- Key: MIDI key (zero-based, i.e., in range [0; 127])

MIDI

MIDI (DIN connector, no USB) allows you to play the manuals, pedals, switch the stop tabs, and open/close the swell pedals. All numbers of MIDI channels and keys/values in this document are zero-based, i.e., in range 0–127. If you are used to values in range 1–128 you need to add 1.

Important

- There is no feedback at the console: keys, stop tabs, and swell pedals don't move.
- There are no MIDI events for the console's thumb or foot pistons.
- You cannot control the organ's internal firmware (e.g., setter, looper).
- The looper cannot be (de)activated via MIDI.
- Make sure that you finally release all keys and deactivate all stops via MIDI (e.g., use MIDI panic function in your DAW/software) that you pressed/activated via MIDI. Otherwise they still remain pressed/activated and you need to reboot the console. The console does *not* release/deactivate keys/stop tabs automatically when you unplug the MIDI interface.

Default Channels for Manuals/Pedals

Use velocity 64 or greater for note on, 0 for note off.

- I: Ch 0
- II: Ch 1
- III: Ch 2
- IV: Ch 3
- Ped: Ch 5

Default Channels for Stop Tabs

Two modes are recommended for operating the stop tabs: either note events or control change (CC) events (see MIDI menu of the organ computer). The channel and key/controller numbers are listed in the disposition tables. Use velocity/controller value 127 for on, 0 for off.

Important

- If you operate stop tabs manually at the console they override/get precedence over MIDI. Example: you cannot deactivate a stop tab via MIDI that you activated by hand.
- If you experience problems with controlling the stop tabs via MIDI (especially stop tabs 129–307) try another MIDI interface. Compatible interfaces include the [Focusrite Scarlett 8i6 3rd Gen](#). Incompatible interfaces include the [CME U2 MIDI Pro](#).

Default Channels for Swell Pedals

Use MIDI control change (CC) events on channel 12 for controlling the swell pedals. The controller numbers are as follows, min/max controller values are in range 0–127:

- L: 11
- M: 12
- R: 13

Important

- MIDI control of the swell pedals works only if the swell pedals at the console are closed completely.
- If you operate swell pedals manually at the console they override/get precedence over MIDI. Example: you cannot close a swell pedal via MIDI that you opened by foot.

I Cornettwerk (C-c''')

No	Name	From	Ch	Key
33	Bordun (P)	32'	III	8 32
34	Salicet (P)	32'	II	8 33
35	Principal	16'	I	8 34
36	Violon	16'	IV	8 35
37	Bordun Flauten	16'	II	8 36
38	Harmonika	16'	IV	8 37
39	Quint	10 2/3'	I	8 38
40	Principal primo	8'	I	8 39
41	Principal secondo	8'	T	8 40
42	Stentor Gambe	8'	IV	8 41
43	Violon	8'	IV	8 42
44	Doppel Gedackt	8'	I	8 43
45	Quintatön (P)	8'	II	8 44
46	Salicional	8'	II/IV	8 45
47	Terz	6 2/5'	I	8 46
48	Quint	5 1/3'	I	8 47
49	Septime	4 4/7'	I	8 48
50	Principal	4'	I	8 49
51	Klein Gedackt	4'	T	8 50
52	Dolcissimo	4'	IV	8 51
53	Terz	3 1/5'	I	8 52
54	Quint	2 2/3'	I	8 53
55	Septime	2 2/7'	I	8 54
56	Principal	2'	I/T	8 55
57	Terz (C - c')	1 3/5'	I	8 56
58	Terz (cs' - c''')	1 3/5'	I	8 57
59	Quint	1 1/3'	I	8 58
60	Septime	1 1/7'	I	8 59
61	Principal	1'	I/T	8 60
62	Tremulant		I	8 61
67	Quint rep.	2 2/3'	I/T/IV	8 66
68	Principal rep.	4'	I/T	8 67
69	Fourniture major 3f	2 2/3'	I	8 68
70	Fourniture minor 3f	1'	I	8 69
71	Grand Cornet 3f	32'	I	8 70
72	Grand Cornet 5f	16'	I	8 71
73	Cornett Mixtur	2-4f	IV	8 72
74	Trompete	16'	T	8 73
75	Trompete	8'	I	8 74
76	Clarinette	8'	IV	8 75
77	Clairon	4'	IV	8 76
78	Cornettino	2'	P/IV	8 77
79	Phys Harmonika	16'	III	8 78
80	Phys Harmonika	8'	III	8 79
81	Phys Harmonika	4'	III	8 80
82	IV / I			8 81
83	IV / I	4'		8 82
84	IV / I	16'		8 83
85	III / I			8 84
86	III / I	4'		8 85
87	III / I	16'		8 86
88	II / I			8 87
89	II / I	4'		8 88
90	II / I	16'		8 89
91	Aequal I Aus	C - c'		8 90
92	Aequal I Aus	cs - c'''		8 91
93	Ped - I			8 92
94	Invers Koppel	C vs h'''	I	8 93

II Hauptwerk (C-c^{'''})

No	Name		From	Ch	Key
63	Tremulant		II	8	62
248	Invers Koppel	C vs a ^{'''}	II	9	119
249	IV – II			9	120
250	IV – II	4'		9	121
251	IV – II	16'		9	122
252	III – II			9	123
253	III – II	4'		9	124
254	III – II	16'		9	125
255	II – II	4'		10	126
256	Aequal II Aus			10	127
257	II – II	16'		10	0
258	I – II			10	1
259	I – II	4'		10	2
260	I – II	16'		10	3
261	Groß Untersatz	32'	P/I	10	4
262	Groß Principal	16'	I/IV	10	5
263	Quintatön (P)	16'	II	10	6
264	Salicional (P)	16'	II	10	7
265	Principal (A) (P)	8'	II	10	8
266	Violon	8'	IV	10	9
267	Gemshorn (A)	8'	T	10	10
268	Viola di Gamba (A) (P)	8'	II	10	11
269	Quintatön (A) (P)	8'	II	10	12
270	Rohrflöte	8'	IV	10	13
271	Gedackt (A)	8'	T	10	14
272	Flauten (P)	8'	II	10	15
273	Cythara (P)	8'	II	10	16
274	Flaut Travers	8'	T	10	17
275	Quinta (A)	6'	T	10	18
276	Octav (A) (P)	4'	II	10	19
277	Gemshorn	4'	T	10	20
278	Rohrflöte	4'	IV	10	21
279	Flaut Travers	4'	T	10	22
280	Zartflöte	4'	IV	10	23
281	Quint	2 2/3'	I	10	24
282	Octavilet 2 fach	2'	I/T	10	25
283	Sesquialtera 2 fach		T	10	26
284	Mixtur 4 fach (A)	2'	II	10	27
285	Cymbel 2 fach (A)	1/2'	II	10	28
286	Clarinette	16'	IV	10	29

No	Name		From	Ch	Key
287	Fagott	16'	II	10	30
288	Bassethorn	16'	T	10	31
289	Trompete (A)	8'	I	10	32
290	Clarinette	8'	IV	10	33
291	Bassethorn	8'	T	10	34
292	Schalmey	4'	IV	10	35
293	Schwebungs Zustand	6 2/5'	I	10	36
294	Freie Schaltung			10	37

III Echo (C-c^{'''})

No	Name		From	Ch	Key
64	Tremulant		III	8	63
188	Invers Koppel	C vs a ^{'''}	III	9	59
189	IV – III			9	60
190	IV – III	4'		9	61
191	IV – III	16'		9	62
192	III – III	4'		9	63
193	Aequal III Aus			9	64
194	III – III	16'		9	65
195	II – III			9	66
196	II – III	4'		9	67
197	II – III	16'		9	68
198	I – III			9	69
199	I – III	4'		9	70
200	I – III	16'		9	71
201	Groß Gedackt (P)	16'	III	9	72
202	Harmonika	16'	IV	9	73
203	Violon	8'	IV	9	74
204	Labial-Clarinette (P)	8'	III	9	75
205	Gemshorn (A)	8'	T	9	76
206	Salicional (P)	8'	III	9	77
207	Rohrflöte	8'	IV	9	78
208	Gedackt (A)	8'	T	9	79
209	Concert Flöte (P)	8'	III	9	80
210	Hohlflöte (P)	8'	III	9	81
211	Dolce (P)	8'	III	9	82
212	Holz Harmonika (P)	8'	III	9	83
213	Vox Coelestis	8'	IV	9	84
214	Quinta (A)	6'	T	9	85
215	Fugara	4'	IV	9	86
216	Principal (A)	4'	T	9	87
217	Nachthorn (A)	4'	IV	9	88
218	Spitzflöte (A) (P)	4'	III	9	89
219	Flaut Travers	4'	T	9	90
220	Zartflöte	4'	IV	9	91
221	Vox Coelestis	4'	IV	9	92
222	Tertia rep.	4/5'	IV	9	93
223	Quinta (A)	3'	III	9	94
224	Principal	2'	I	9	95
225	Flautino (P)	2'	III	9	96
226	Terz	13/5'	I	9	97

No	Name		From	Ch	Key
227	Harmonia Aeteria (P)	2 2/3'	III	9	98
228	Rausch Quint 2 fach (P)		III	9	99
229	Sesquialtera 2 fach (A)		T	9	100
230	Quint	1 1/3'	I	9	101
231	Principal	1'	I	9	102
232	Mixtur 3 fach (A)		I/III	9	103
233	Vox Humana (A)	8'	III	9	104
234	Phys Harmonika	16'	III	9	105
235	Phys Harmonika	8'	III	9	106
236	Phys Harmonika	4'	III	9	107

IV Récit (C-c''')

No	Name		From	Ch	Key
1	Wind Auslass	C	IV	8	0
2	Wind Auslass	Cs	IV	8	1
3	Wind Auslass	D	IV	8	2
4	Wind Auslass	Ds	IV	8	3
5	Resonator	L		8	4
6	Resonator	M		8	5
7	<u>Violon</u>	16'	IV	8	6
8	Salicional	16'	II	8	7
9	<u>Stentor Gambe</u>	8'	IV	8	8
10	<u>Jubalflöte</u>	8'	IV	8	9
11	Violon	8'	IV	8	10
12	<u>Bourdon</u>	8'	IV	8	11
13	Stentor Gambe	4'	IV	8	12
14	Jubalflöte	4'	IV	8	13
15	Bourdon	4'	IV	8	14
16	Quint rep.	1 1/3'	T	8	15
17	Terz rep.	4/5'	IV	8	16
18	<u>Septime rep.</u>	4/7'	IV	8	17
19	Tritonus	3fach	T/I	8	18
20	<u>Cornett Mixtur</u>	2-4f	IV	8	19
21	Bombarde	16'	IV	8	20
22	<u>Clarinete</u>	16'	IV	8	21
23	Bassethorn	16'	T	8	22
24	<u>Trompette</u>	8'	IV	8	23
25	Clarinete	8'	IV	8	24
26	Bassethorn	8'	T	8	25
27	Clarinete	4'	IV	8	26
28	<u>Skinner Clarinete</u>	8'	IV	8	27
29	Aequal IV Bass Aus	C - c'		8	28
30	Aequal IV Disk Aus	cs' - c'''		8	29
31	I - IV			8	30
32	Invers Koppel	C vs g'''	IV	8	31
65	Tremulant		IV	8	64
156	IV - IV	4'		9	27
157	IV - IV	16'		9	28
158	<u>Harmonika</u>	16'	IV	9	29
159	Salicional (P)	8'	II	9	30
160	Flaut Travers	8'	T	9	31
161	Aeoline	8'	IV	9	32
162	<u>Vox Coelestis</u>	8'	IV	9	33

No	Name		From	Ch	Key
163	<u>Zartflöte</u>	4'	IV	9	34
164	<u>Aeoline</u>	4'	IV	9	35
165	Vox Coelestis	4'	IV	9	36
166	<u>Aeoline</u>	2 2/3'	IV	9	37
167	Aeoline	2'	IV	9	38
168	<u>Aeoline</u>	1 3/5'	IV	9	39
169	Aeoline	1 1/3'	IV	9	40
170	<u>Aeoline</u>	1 1/7'	IV	9	41
171	Aeoline	1'	IV	9	42
172	<u>Aeoline</u>	8/9'	IV	9	43
173	<u>Aeoline</u>	8/15'	IV	9	44
174	Echo 4 fach		IV	9	45
175	Septim-Zimbel 2 fach		IV	9	46
176	Repetierende None		IV	9	47
177	Perfecta 3 fach		I	9	48
178	Imperfecta 3 fach		IV	9	49
179	Comes zu Perfecta 3 fach		IV	9	50
180	Echo-Theorbe	32' Dsk	IV	9	51
181	Harmonika Regal	16'	IV	9	52
182	Aeolinen Regal	8'	IV	9	53
183	<u>Hautbois</u>	8'	IV	9	54
184	Schalmey	8'	IV	9	55
185	Phys Harmonika	16'	III	9	56
186	Phys Harmonika	8'	III	9	57
187	Phys Harmonika	4'	III	9	58

Pedal (C-g')

No	Name	From	Ch	Key
95	<u>Untersatz</u>	32'	P	8 94
96	<u>Flüte</u>	16'	P	8 95
97	Violon Bass	16'	IV	8 96
98	<u>Sub Bass</u> A	16'	P	8 97
99	<u>Salicet Bass</u> P	16'	II	8 98
100	<u>Quintatön Bass</u> P	16'	II	8 99
101	<u>Gedackt Bass</u> P	16'	III	8 100
102	Harmonika Bass	16'	IV	8 101
103	Quint Bass	10 2/3'	I	8 102
104	Flüte	8'	P	8 103
105	Gamben Bass	8'	IV	8 104
106	Violon Bass	8'	IV	8 105
107	Diapason	8'	I	8 106
108	<u>Principal Bass</u> A	8'	P	8 107
109	<u>Gedackt Bass</u>	8'	T	8 108
110	<u>Salicet</u>	8'	P	8 109
111	Aeoline	8'	IV	8 110
112	Terz Bass 6 2/5'		I	8 111
113	Quint Bass	5 1/3'	I	8 112
114	Septime	4 4/7'	I	8 113
115	Octav	4'	I	8 114
116	Travers Flüte	4'	T	8 115
117	Aeoline	4'	IV	8 116
118	Aeoline	2 2/3'	IV	8 117
119	Aeoline	2'	IV	8 118
120	Aeoline	1 3/5'	IV	8 119
121	Aeoline	1 1/3'	IV	8 120
122	Aeoline	1 1/7'	IV	8 121
123	Aeoline	1'	IV	8 122
124	Aeoline	8/9'	IV	8 123
125	Aeoline	8/15'	IV	8 124
126	Theorbe 9 fach	32'	P/II/IV	8 125
127	Harmonika Regal	16'	IV	8 126
128	Aeolinen Regal	16'	IV	8 127
129	Stentor Gambe	4'	IV	9 0
130	Tritonus 7 fach	3 1/5'	I/IV	9 1
131	Sesquialtera 2 fach	2 2/3'	T	9 2
132	Fourniture major 3f	2 2/3'	I	9 3
133	Fourniture minor 3f	1'	I	9 4
134	Posaune	32'	P	9 5
135	Posaune Comb.	32'	P	9 6
136	<u>Posaune</u> A	16'	P	9 7
137	Clarinette	16'	IV	9 8
138	Bassethorn	16'	T	9 9
139	Phys Harmonika	16'	III	9 10
140	Skinner Clarinette	8'	IV	9 11
141	Trompette	8'	IV	9 12
142	Clarinette	8'	IV	9 13
143	<u>Trompete</u>	8'	P	9 14
144	Bassethorn	8'	T	9 15
145	Phys Harmonika	8'	III	9 16
146	Clarinette	4'	IV	9 17
147	Phys Harmonika	4'	III	9 18
148	<u>Cornett</u> A	2'	P	9 19
149	IV / P			9 20
150	IV / P	4'		9 21
151	III / P			9 22
152	III / P	4'		9 23
153	II / P			9 24
154	I / P			9 25
155	Invers Koppel	D vs g'	P	9 26

Swell Pedal Assignments & Miscellaneous

The console has three swell pedals: left (L), middle (M), and right (R). Assign them with stop tabs 237–247.

No	Name	From	Ch	Key
66	Tremulant	T	8	65
237	Skinner Clarinette	L	9	108
238	Skinner Clarinette	M	9	109
239	Récit IV	L	9	110
240	Récit IV	M	9	111
241	Echo III	L	9	112
242	Echo III	M	9	113
243	Phys Harmonika Geh-SW	L	9	114
244	Phys Harmonika Geh-SW	M	9	115
245	Phys Harmonika Wind SW	R	9	116
246	Motor Drossel	R	9	117
247	Tasten Dynamik	R	9	118
	26/15' = 1,73333'		10	51
	118,22/46' = 2,57'		10	52
295	Schwebungs Koppel A	III – I	10	38
296	Schwebungs Koppel B	III – T	10	39
297	Schwebungs Koppel C	III – I – T	10	40
298	Intervall Koppel a		10	41
299	Intervall Koppel b		10	42
300	Intervall Koppel c		10	43
301	Intervall Koppel d		10	44
302	Intervall Koppel e		10	45
303	Loop a		10	46
304	Loop b		10	47
305	Loop c		10	48
306	Phys Harmonika aus Walze		10	49
307	Tutti		10	50