

MIDI messages for the Fokker organ

Note messages

To play notes on the Fokker organ through MIDI, send MIDI note messages using the channels and note numbers as given in the tables on the following pages. For noteon messages, any non-zero velocity may be used.
c1 = middle C, a1 ≈ 443 Hz.

Note that you can only send MIDI messages to Manual I, Manual II, or Pedal. Individual pipes of each register cannot be controlled separately.

There are two different MIDI protocols for sending note messages to the Fokker organ. These are named 'Method 1' and 'Method 3'. (A 'Method 2' was also planned, but never implemented.)

Method 3 is recommended for most users, as it has proven to be the more practical one for most purposes. Therefore, in the tables below, Method 3 is presented first.

If you want to use the *Fokker Emulator* or *Ere's Fokker organ console* software, you should use Method 3.

Method 1 vs. Method 3

In Method 3, the pitches on MIDI channel 1 correspond to the 12 pitches of the traditional meantone tuning (i.e. a chain of fifths from Eb to G#). Channel 2 contains the same pitches, but 1 diesis higher than channel 1. Channel 3 contains the remaining 7 pitches, 2 diesis higher than channel 1.

Channels 1–3, as described above, are for Manual I. Manual II uses channels 7–9 in a similar fashion. Pedal uses channels 4–6.

One practical benefit of Method 3 is that it allows any regular MIDI keyboard (sending on channel 1) to be connected directly to the Fokker organ, and to be played in the traditional meantone tuning without any computer or other intervening device.

In Method 1, each MIDI channel contains only one octave (31 pitches) on one manual or pedal. Manual I uses channels 1–5, Manual II uses channels 11–15, and Pedal uses channels 8–9.

Method 1 has been used much less, but you may choose to use it, if it suits your purposes better. Only you must then always remember to set the method selector switch on the Fokker organ to the correct position!

Method 1 and Method 3 cannot be used simultaneously. The method selector switch is located on the Fokker organ console on the right hand side. It is an unnamed rotary switch with 3 positions. Method 1 is the leftmost position, Method 3 is the rightmost position.

Registers

To switch the registers (stops) of the Fokker organ on and off through MIDI, send MIDI program change messages on channel 1 as shown below.

Stop	on	off
1 Subbas 16'	0	1
2 Gedekt 8'	2	3
3 P + I	4	5
4 P + II	6	7
5 Quintadena 8'	8	9
6 Prestant 4'	10	11
7 I + II	12	13
8 Salicionaal 8'	14	15
9 Roerfluit 4'	16	17

For more information, please refer to the *Composer's guide to the Fokker organ* and other documents at <http://www.erlievonen.eu/documents/>

MIDI note messages, Method 3

Manual I

Pitch	Channel	Note #	Pitch	Channel	Note #	Pitch	Channel	Note #
C	1	36	C+	2	36	D-	3	37
C#	1	37	Db	2	37	D#	3	38
D	1	38	D+	2	38	E# / F-	3	40
Eb	1	39	E-	2	39	G-	3	42
E	1	40	E+ / Fb	2	40	A-	3	44
F	1	41	F+	2	41	A#	3	45
F#	1	42	Gb	2	42	B# / c-	3	47
G	1	43	G+	2	43			
G#	1	44	Ab	2	44			
A	1	45	A+	2	45			
Bb	1	46	B-	2	46			
B	1	47	B+ / cb	2	47			
c	1	48	c+	2	48	d-	3	49
c#	1	49	db	2	49	d#	3	50
d	1	50	d+	2	50	e# / f-	3	52
eb	1	51	e-	2	51	g-	3	54
e	1	52	e+ / fb	2	52	a-	3	56
f	1	53	f+	2	53	a#	3	57
f#	1	54	gb	2	54	b# / c-1	3	59
g	1	55	g+	2	55			
g#	1	56	ab	2	56			
a	1	57	a+	2	57			
bb	1	58	b-	2	58			
b	1	59	b+ / cb1	2	59			
c1	1	60	c+1	2	60	d-1	3	61
c#1	1	61	db1	2	61	d#1	3	62
d1	1	62	d+1	2	62	e#1 / f-1	3	64
eb1	1	63	e-1	2	63	g-1	3	66
e1	1	64	e+1 / fb1	2	64	a-1	3	68
f1	1	65	f+1	2	65	a#1	3	69
f#1	1	66	gb1	2	66	b#1 / c-2	3	71
g1	1	67	g+1	2	67			
g#1	1	68	ab1	2	68			
a1	1	69	a+1	2	69			
bb1	1	70	b-1	2	70			
b1	1	71	b+1 / cb2	2	71			
c2	1	72	c+2	2	72	d-2	3	73
c#2	1	73	db2	2	73	d#2	3	74
d2	1	74	d+2	2	74	e#2 / f-2	3	76
eb2	1	75	e-2	2	75	g-2	3	78
e2	1	76	e+2 / fb2	2	76	a-2	3	80
f2	1	77	f+2	2	77	a#2	3	81
f#2	1	78	gb2	2	78	b#2 / c-3	3	83
g2	1	79	g+2	2	79			
g#2	1	80	ab2	2	80			
a2	1	81	a+2	2	81			
bb2	1	82	b-2	2	82			
b2	1	83	b+2 / cb3	2	83			
c3	1	84	c+3	2	84	d-3	3	85
c#3	1	85	db3	2	85	d#3	3	86
d3	1	86	d+3	2	86	e#3 / f-3	3	88
eb3	1	87	e-3	2	87	g-3	3	90
e3	1	88	e+3 / fb3	2	88			
f3	1	89	f+3	2	89			
f#3	1	90	gb3	2	90			
g3	1	91						

Manual II

Pitch	Channel	Note #	Pitch	Channel	Note #	Pitch	Channel	Note #
C	7	36	C+	8	36			
C#	7	37	Db	8	37	D-	9	37
D	7	38	D+	8	38	D#	9	38
Eb	7	39	E-	8	39			
E	7	40	E+ / Fb	8	40	E# / F-	9	40
F	7	41	F+	8	41			
F#	7	42	Gb	8	42	G-	9	42
G	7	43	G+	8	43			
G#	7	44	Ab	8	44	A-	9	44
A	7	45	A+	8	45	A#	9	45
Bb	7	46	B-	8	46			
B	7	47	B+ / cb	8	47	B# / c-	9	47
c	7	48	c+	8	48			
c#	7	49	db	8	49	d-	9	49
d	7	50	d+	8	50	d#	9	50
eb	7	51	e-	8	51			
e	7	52	e+ / fb	8	52	e# / f-	9	52
f	7	53	f+	8	53			
f#	7	54	gb	8	54	g-	9	54
g	7	55	g+	8	55			
g#	7	56	ab	8	56	a-	9	56
a	7	57	a+	8	57	a#	9	57
bb	7	58	b-	8	58			
b	7	59	b+ / cb1	8	59	b# / c-1	9	59
c1	7	60	c+1	8	60			
c#1	7	61	db1	8	61	d-1	9	61
d1	7	62	d+1	8	62	d#1	9	62
eb1	7	63	e-1	8	63			
e1	7	64	e+1 / fb1	8	64	e#1 / f-1	9	64
f1	7	65	f+1	8	65			
f#1	7	66	gb1	8	66	g-1	9	66
g1	7	67	g+1	8	67			
g#1	7	68	ab1	8	68	a-1	9	68
a1	7	69	a+1	8	69	a#1	9	69
bb1	7	70	b-1	8	70			
b1	7	71	b+1 / cb2	8	71	b#1 / c-2	9	71
c2	7	72	c+2	8	72			
c#2	7	73	db2	8	73	d-2	9	73
d2	7	74	d+2	8	74	d#2	9	74
eb2	7	75	e-2	8	75			
e2	7	76	e+2 / fb2	8	76	e#2 / f-2	9	76
f2	7	77	f+2	8	77			
f#2	7	78	gb2	8	78	g-2	9	78
g2	7	79	g+2	8	79			
g#2	7	80	ab2	8	80	a-2	9	80
a2	7	81	a+2	8	81	a#2	9	81
bb2	7	82	b-2	8	82			
b2	7	83	b+2 / cb3	8	83	b#2 / c-3	9	83
c3	7	84	c+3	8	84			
c#3	7	85	db3	8	85	d-3	9	85
d3	7	86	d+3	8	86	d#3	9	86
eb3	7	87	e-3	8	87			
e3	7	88	e+3 / fb3	8	88	e#3 / f-3	9	88
f3	7	89	f+3	8	89			
f#3	7	90	gb3	8	90	g-3	9	90
g3	7	91						

Pedal

Pitch	Channel	Note #	Pitch	Channel	Note #	Pitch	Channel	Note #
C	4	36	C+	5	36			
C#	4	37	Db	5	37	D-	6	37
D	4	38	D+	5	38	D#	6	38
Eb	4	39	E-	5	39			
E	4	40	E+ / Fb	5	40	E# / F-	6	40
F	4	41	F+	5	41			
F#	4	42	Gb	5	42	G-	6	42
G	4	43	G+	5	43			
G#	4	44	Ab	5	44	A-	6	44
A	4	45	A+	5	45	A#	6	45
Bb	4	46	B-	5	46			
B	4	47	B+ / cb	5	47	B# / c-	6	47
c	4	48	c+	5	48			
c#	4	49	db	5	49	d-	6	49
d	4	50	d+	5	50	d#	6	50
eb	4	51	e-	5	51			
e	4	52	e+ / fb	5	52	e# / f-	6	52
f	4	53	f+ *	5	53			

* This unexpected extra pitch works only on the Subbas 16' stop. It has no corresponding physical key on the pedalboard.

MIDI note messages, Method 1

Manual I

Pitch	Channel	Note #
C	1	60
C+	1	61
C#	1	62
Db	1	63
D-	1	64
D	1	65
D+	1	66
D#	1	67
Eb	1	68
E-	1	69
E	1	70
E+ / Fb	1	71
E# / F-	1	72
F	1	73
F+	1	74
F#	1	75
Gb	1	76
G-	1	77
G	1	78
G+	1	79
G#	1	80
Ab	1	81
A-	1	82
A	1	83
A+	1	84
A#	1	85
Bb	1	86
B-	1	87
B	1	88
B+ / cb	1	89
B# / c-	1	90
c	2	60
c+	2	61
c#	2	62
db	2	63
d-	2	64
d	2	65
d+	2	66
d#	2	67
eb	2	68
e-	2	69
e	2	70
e+ / fb	2	71
e# / f-	2	72
f	2	73
f+	2	74
f#	2	75
gb	2	76
g-	2	77
g	2	78
g+	2	79
g#	2	80
ab	2	81
a-	2	82
a	2	83
a+	2	84
a#	2	85
bb	2	86
b-	2	87
b	2	88
b+ / cb1	2	89
b# / c-1	2	90

Manual II

Pitch	Channel	Note #
C	11	60
C+	11	61
C#	11	62
Db	11	63
D-	11	64
D	11	65
D+	11	66
D#	11	67
Eb	11	68
E-	11	69
E	11	70
E+ / Fb	11	71
E# / F-	11	72
F	11	73
F+	11	74
F#	11	75
Gb	11	76
G-	11	77
G	11	78
G+	11	79
G#	11	80
Ab	11	81
A-	11	82
A	11	83
A+	11	84
A#	11	85
Bb	11	86
B-	11	87
B	11	88
B+ / cb	11	89
B# / c-	11	90
c	12	60
c+	12	61
c#	12	62
db	12	63
d-	12	64
d	12	65
d+	12	66
d#	12	67
eb	12	68
e-	12	69
e	12	70
e+ / fb	12	71
e# / f-	12	72
f	12	73
f+	12	74
f#	12	75
gb	12	76
g-	12	77
g	12	78
g+	12	79
g#	12	80
ab	12	81
a-	12	82
a	12	83
a+	12	84
a#	12	85
bb	12	86
b-	12	87
b	12	88
b+ / cb1	12	89
b# / c-1	12	90

Pedal

Pitch	Channel	Note #
C	8	60
C+	8	61
C#	8	62
Db	8	63
D-	8	64
D	8	65
D+	8	66
D#	8	67
Eb	8	68
E-	8	69
E	8	70
E+ / Fb	8	71
E# / F-	8	72
F	8	73
F+	8	74
F#	8	75
Gb	8	76
G-	8	77
G	8	78
G+	8	79
G#	8	80
Ab	8	81
A-	8	82
A	8	83
A+	8	84
A#	8	85
Bb	8	86
B-	8	87
B	8	88
B+ / cb	8	89
B# / c-	8	90
c	9	60
c+	9	61
c#	9	62
db	9	63
d-	9	64
d	9	65
d+	9	66
d#	9	67
eb	9	68
e-	9	69
e	9	70
e+ / fb	9	71
e# / f-	9	72
f	9	73

c1	3	60
c+1	3	61
c#1	3	62
db1	3	63
d-1	3	64
d1	3	65
d+1	3	66
d#1	3	67
eb1	3	68
e-1	3	69
e1	3	70
e+1 / fb1	3	71
e#1 / f-1	3	72
f1	3	73
f+1	3	74
f#1	3	75
gb1	3	76
g-1	3	77
g1	3	78
g+1	3	79
g#1	3	80
ab1	3	81
a-1	3	82
a1	3	83
a+1	3	84
a#1	3	85
bb1	3	86
b-1	3	87
b1	3	88
b+1 / cb2	3	89
b#1 / c-2	3	90

c2	4	60
c+2	4	61
c#2	4	62
db2	4	63
d-2	4	64
d2	4	65
d+2	4	66
d#2	4	67
eb2	4	68
e-2	4	69
e2	4	70
e+2 / fb2	4	71
e#2 / f-2	4	72
f2	4	73
f+2	4	74
f#2	4	75
gb2	4	76
g-2	4	77
g2	4	78
g+2	4	79
g#2	4	80
ab2	4	81
a-2	4	82
a2	4	83
a+2	4	84
a#2	4	85
bb2	4	86
b-2	4	87
b2	4	88
b+2 / cb3	4	89
b#2 / c-3	4	90

c3	5	60
c+3	5	61
c#3	5	62
db3	5	63
d-3	5	64

c1	13	60
c+1	13	61
c#1	13	62
db1	13	63
d-1	13	64
d1	13	65
d+1	13	66
d#1	13	67
eb1	13	68
e-1	13	69
e1	13	70
e+1 / fb1	13	71
e#1 / f-1	13	72
f1	13	73
f+1	13	74
f#1	13	75
gb1	13	76
g-1	13	77
g1	13	78
g+1	13	79
g#1	13	80
ab1	13	81
a-1	13	82
a1	13	83
a+1	13	84
a#1	13	85
bb1	13	86
b-1	13	87
b1	13	88
b+1 / cb2	13	89
b#1 / c-2	13	90

c2	14	60
c+2	14	61
c#2	14	62
db2	14	63
d-2	14	64
d2	14	65
d+2	14	66
d#2	14	67
eb2	14	68
e-2	14	69
e2	14	70
e+2 / fb2	14	71
e#2 / f-2	14	72
f2	14	73
f+2	14	74
f#2	14	75
gb2	14	76
g-2	14	77
g2	14	78
g+2	14	79
g#2	14	80
ab2	14	81
a-2	14	82
a2	14	83
a+2	14	84
a#2	14	85
bb2	14	86
b-2	14	87
b2	14	88
b+2 / cb3	14	89
b#2 / c-3	14	90

c3	15	60
c+3	15	61
c#3	15	62
db3	15	63
d-3	15	64

d3	5	65
d+3	5	66
d#3	5	67
eb3	5	68
e-3	5	69
e3	5	70
e+3 / fb3	5	71
e#3 / f-3	5	72
f3	5	73
f+3	5	74
f#3	5	75
gb3	5	76
g-3	5	77
g3	5	78

d3	15	65
d+3	15	66
d#3	15	67
eb3	15	68
e-3	15	69
e3	15	70
e+3 / fb3	15	71
e#3 / f-3	15	72
f3	15	73
f+3	15	74
f#3	15	75
gb3	15	76
g-3	15	77
g3	15	78