WINTERMODULAR

EME MANUAL

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Introduction

EME (Eloquencer MIDI Expansion) is the perfect companion for the Eloquencer, adding capabilities to sync with MIDI devices, controlling most of the eloquencer parameters with MIDI interfaces, generating MIDI voices from the eloquencer tracks, and converting MIDI signals to the eurorack world.

It provides 6 main features:

- MIDI Synchronization: MIDI CLK IN and OUT.
- MIDI Control: This feature allows a MIDI controller with mapped CCs to modify many of the Eloquencer parameters.
- MIDI controller keyboard: This feature allows a MIDI controller to introduce notes in LIVE REC mode or FREE PLAY mode
- MIDI in route: MIDI to Gate and CV interface for any of the Eloquencer tracks.
- MIDI out: Internal Eloquencer sequences can be routed to the MIDI output as a voice message (note on/off, velocity), CC or Program Change.
- Assignable buttons: These 4 buttons allow you to personalize the Eloquencer with your favorite functions.

Installation

Before you can start making music, you'll need to do two important things:

1. Upgrade the Eloquencer (if you have 1.2.0 or below)
2. Physically link the Eloquencer and EME.

Updating the Eloquencer

To run the EME, the Eloquencer will need to be updated with 1.3.0 or higher version. The downloader and instructions can be found on our github page:

https://github.com/enoughframes/ELOQUENCER___UPDATER

*** Note : Make sure you are using a USB Data Transfer cable as opposed to a USB charging cable. Some people have encountered issues because of this. If the updater does not detect the eloquencer close the updater, try another USB cable and run the application again.

Connecting Eloquencer and EME

Connect the EME with the Eloquencer using the 4 pin cable provided. On the EME module, the cable connector has two plastic arrows that match into the plastic socket rails in the module. This feature makes it convenient to connect cable to the EME since it can only be connected in a single direction.

When connecting the Eloquencer module to the EME it is necessary to check the unit's serial number. Serial numbers above 4999 have the same mono-directional cable connection as the EME. (see below)
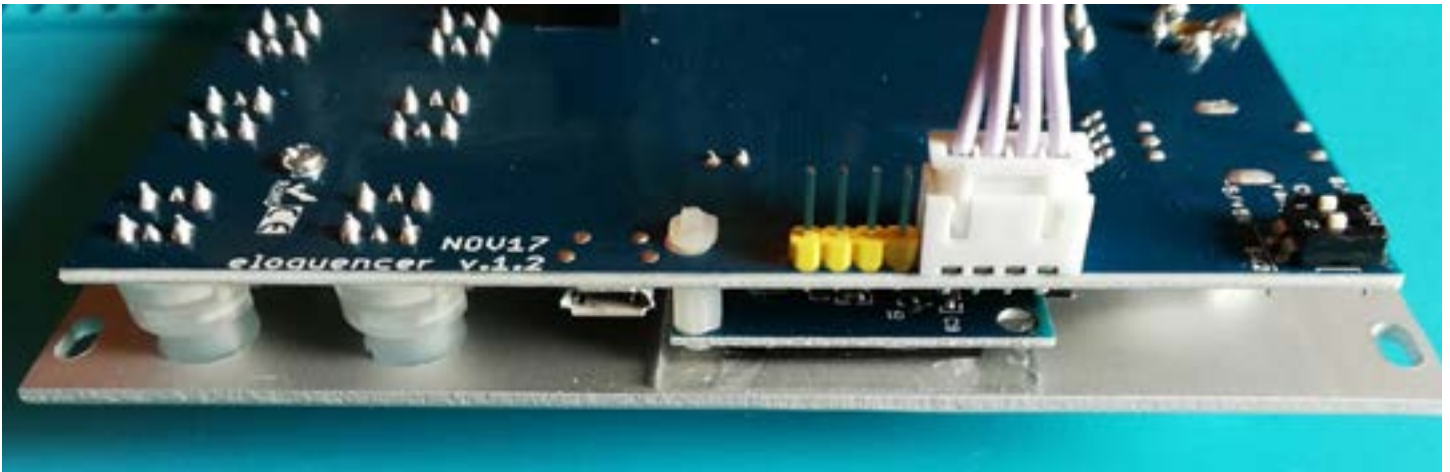
If you have an Eloquencer with serial number below 5000, you will have to connect the cable in the SV2 position, making sure the two small plastic arrows are facing out. (see below)
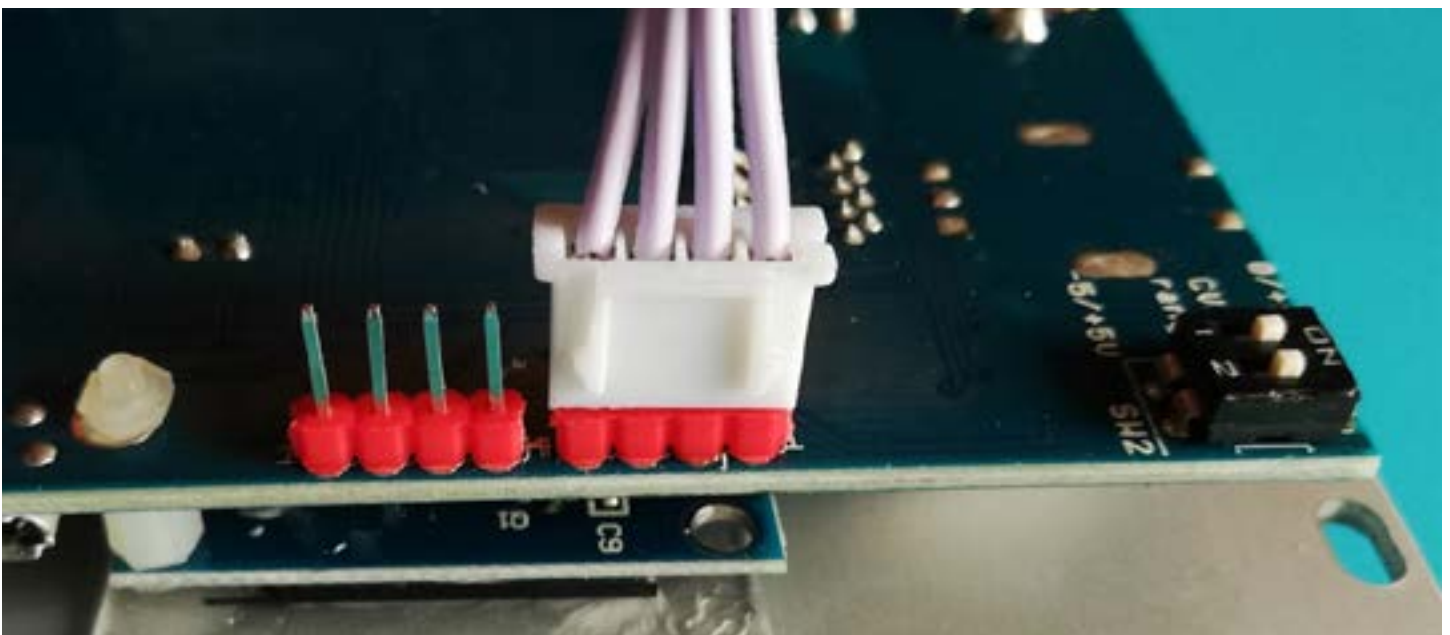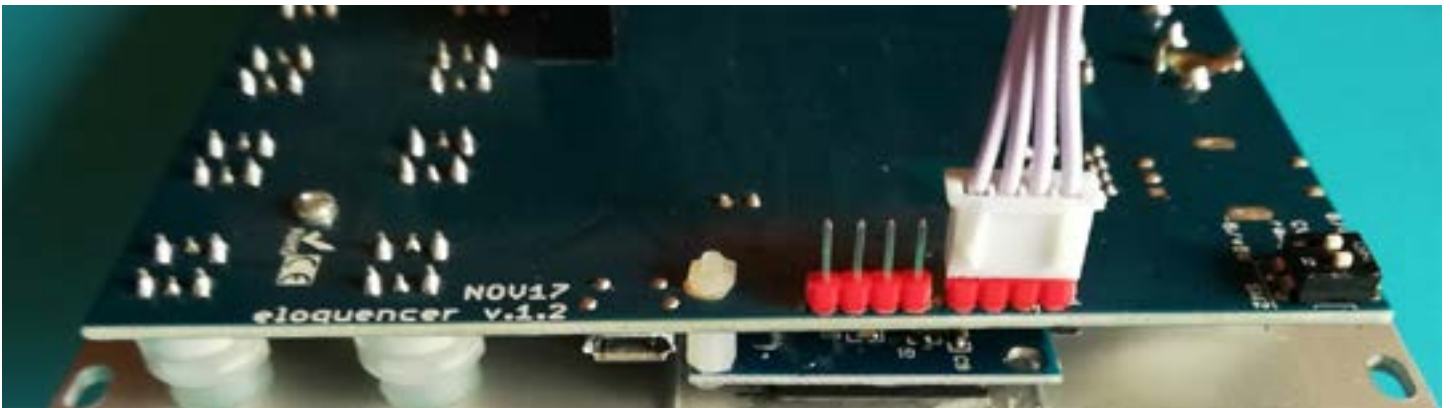
If you have one of the first units (serial number starting with 1) you will notice that the connector has rounded pins. While these work well, you may find that it fits a bit loose. Because of this, we recommend you pay attention when moving your case you make sure this connector is still attached.

If you prefer a more permanent solution, there are more secure ways to attach this connector. You can use a small drop of cyanocrilate to adhere cable to the connector, or you can replace the 4 rounded pins attached to the eloquencer for 4 squared pins. (you will need a solder iron and minimum soldering skills)
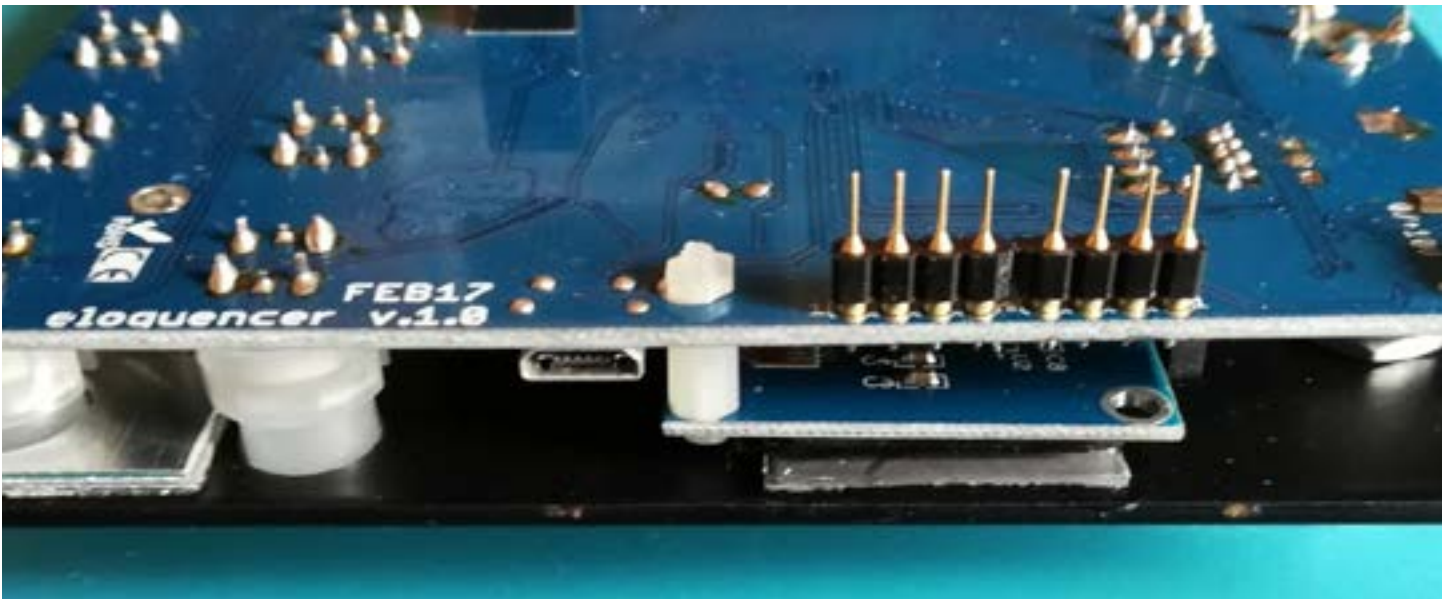
Note: the serial number is on the rear part, beside the power connector.

Once the Eloquencer and the EME are connected, power up the system.
The eloquencer will take a few seconds to identify the EME. If the update has gone successfully and the physical connection is ok, the message 'Exp 2 : EME' should appear in the Power Up Status display.
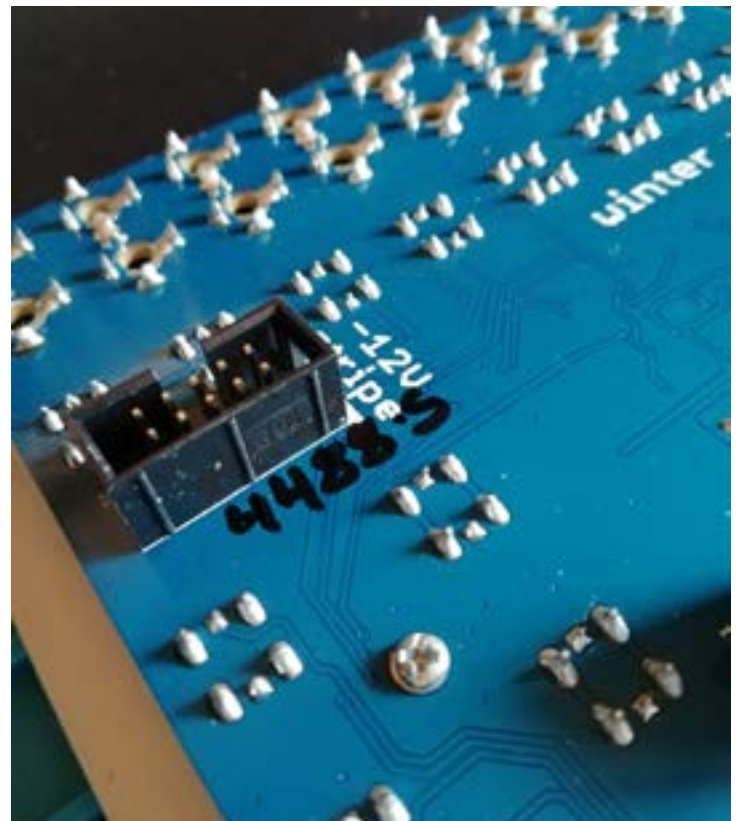
MIDI IN

The eloquencer can receive MIDI message for different purposes:

- MIDI IN clock and transport (DIN5) – The EME can receive standard MIDI clock (24 ppqn) and Start / Stop messages.

- MIDI control (USB and DIN5)– Eloquencer can receive MIDI CC messages from a MIDI controller to control the Eloquencer parameters. There is a list of CCs and channels that can be used to control specific Eloquencer parameters (see Appendix 1 - CC in tables).

There are three main types of control: global, focus and track.

- GLOBAL – All the CC messages received in MIDI Channel 1 are global messages, those are related with generic Eloquencer parameters, or in some cases with 'selected' parameters. Examples of global parameter can be tempo, shuffle, scale, or going to an specific mode. Example of 'selected' can be STEP MODE SELECTED, when we go to the step mode configuration you can select which tracks you are modifying, so sending CH1 CC34 will be modifying the STEP MODE in this selected group of tracks.

- FOCUS – All the CC messages received in CH2 are FOCUS channel, so we will be modifying the focused track. For example if you press track A in the Eloquencer, and you send a value in CH2 CC39 (TRACK SHIFT FOCUS) you will be track shifting track A, then you press track H button and send again CC39 in CH2 message and you will be track shifting track H.

- TRACK – All the CC MIDI messages received between CH9 and CH16 will be understood to control an specific Eloquencer Tracks.

      CH 9 > TRACK A
      CH 10 > TRACK B
      CH 11 > TRACK C
      CH 12 > TRACK D
      CH 13 > TRACK E
      CH 14 > TRACK F
      CH 15 > TRACK G
      CH 16 > TRACK H

For example, sending CH9 CC71 value 127 will mute Track A, sending CH10 CC71 value 127 will mute Track B.

MIDI Keyboard (USB and DIN5)

A Keyboard MIDI controller can be used to send 'note on' and 'note off' messages to:

- MIDI IN REC – To record notes to the sequence
- FREE PLAY – To send 'note on' and 'note off' MIDI messages to analog outputs (Gate and CV) or to the assigned MIDI output for the focused track (in case the focused track has a MIDI output configured)

MIDI IN route (USB and DIN5)

This functionality allows to use the Eloquencer as a MIDI to GATE and CV interface, that means that all the 'note on' and 'note off' MIDI messages received in the chosen MIDI channel will be transformed into GATE and CV value for the chosen Track. In this case if we chose something different from 'none' in the MIDI IN route configuration the information contained in the Eloquencer sequence won't be listen anymore, and the GATE and CV outputs of the track will only change if a 'note on' or 'note off' message is received in the chosen MIDI channel.

To access the MIDI IN configuration press and hold FUNC (in the Eloquencer) + BTN4 (in the EME), and go to MIDI IN

Find below the list of parameters that can be modified in the MIDI IN configuration section:

Key REC

Here we decide which channel are we going to listen/record while being in MIDI IN REC or FREE PLAY (LIVE REC). There are two main possibilities:

CH1 to 8: All the 'note on' and 'note off' MIDI messages received in a specific MIDI channel will be played or recorded in a specific track as shown below:

    CH 1 > TRACK A
    CH 2 > TRACK B
    CH 3 > TRACK C
    CH 4 > TRACK D
    CH 5 > TRACK E
    CH 6 > TRACK F
    CH 7 > TRACK G
    vCH 8 > TRACK H

FOCUS : All the 'note on' and 'note off' MIDI messages received in the chosen MIDI channel will be played or recorded on the current focused track (from A to H)

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MIDI IN Route

Here YOU define which Eloquencer tracks are working as a MIDI to Gate and CV interface. Move the encoder to choose the track, push the encoder, choose the MIDI channel, and press the encoder again to confirm.

Controller rotary type

Here you define how the Eloquencer will understand the CCs coming from the MIDI controller. In most cases we can decided if the rotary acts in Absolute or in Incremental mode. There are some cases that only can be configured in Incremental (see Appendix 1 - CC in tables).

Absolute – The Eloquencer expects a potentiometer/fader behavior, that means if the MIDI controller is in its minimum position it will send a value of 0, as we turn (Clockwise) the potentiometer the MIDI controller will send absolute values of its position, at the end it will reach its maximum position, sending a value of 127. Incremental – The Eloquencer expects differential values, anything above 64 will be understood as a positive increment, so if the Eloquencer receives a value of 68, will understand it as a +4 increment (68 -64 = 4). Any value below 64 will be understood as a negative increment, for example if the Eloquencer receives a value of 58 it will be understood as a -6 increment (58-64).

This behavior can be specified independently for most of the MIDI CC CONTROL parameters.

All can be changed at the same time using 'Change all to: Incr./Abs'

Incremental rotary sensitivity

This parameter is used to establish the amount of detents (clicks) on a rotary encoder that have to turn before a value changes one unit. For example if we configure it at 1 that means that one detent in the encoder will increase one value, if we configure it at 4 means that we need 4 detents in the encoder to increase one value.

Controller feedback

This parameter is used to determine if the EME will send feedback information to a MIDI Controller, this parameter only needs to be active if we are using a USB MIDI controller with LEDS for the push buttons and the rotaries.

MIDI OUT

This functionality allows to route your Eloquencer sequence information of a particular track to a specific MIDI channel and message type. So every time that you have a GATE event in your sequence, this event will be transform to a MIDI message using the step CV value.

There are 3 different types of messages that we can choose:

- VOICE: Messages related with a voice, 'note' will send 'note on' and 'note off' to the MIDI output, velocity will add velocity information to a 'note' event. Velocity will only work if we have another track with the same MIDI channel assigned with 'type: VOICE / value: NOTE'.

- CC: In this case we transform the track sequence information into a CC value, defining Channel and CC number.

- PGMCH: The information contained in the track sequence will be transform into a PGMCH value, in this case we define Channel and Bank.

In order to allow a correct sequence of events you must establish the order in which the MIDI events are output. You must first send the PGMCH messages (this way the preset change will take place before the 'note on' message arrives), then the CC message and finally the 'note on' message.

Load / Save EME configuration
Any of the parameters mentioned above need to be saved if we want them configured next time we power up the synth.

To LOAD a MIDI configuration choose the configuration (from 1 to 16) using the steps buttons, choose LOAD using the rotary encoder, press the rotary encoder, and confirm the security question.

To SAVE a MIDI configuration choose the configuration (from 1 to 16) using the steps buttons, choose SAVE using the rotary encoder, press the rotary encoder, and confirm the security question.

EME buttons

The four EME buttons can be personalize with many functions.
(find a complete list of assignable parameters in Appendix 2).
Configuration by default is:

 BTN1 > previous pattern
 BTN2 > next pattern
 BTN3 > previous part
 BTN4 > next part

To assign a function to a button press and hold FUNC (in eloquencer) + BTN3 (in the EME). Press the button you want to personalize in the EME panel, press the encoder, choose the desired functionality, and press the encoder again.

Load / Save EME buttons assignment
The buttons assignment needs to be saved if you want them configured next time we power up the synth.

To LOAD a button assignment choose it (from 1 to 16) using the steps buttons, choose LOAD using the rotary encoder, press the rotary encoder, and confirm the security question.

To SAVE a button assignment choose it (from 1 to 16) using the steps buttons, choose SAVE using the rotary encoder, press the rotary encoder, and confirm the security question.

TROUBLESHOOTING

I'm using a MIDI controller to control the Eloquencer parameters, but the rotaries are not responding as expected.

Make sure your MIDI controller and the 'rotary behavior configuration' in the 'EME configuration' have the same type of behavior, absolute or incremental.

EME doesn't work at all

Make sure you have the Eloquencer firmware version 1.3.0 (or greater)
Check the physical connections between the Eloquencer and the EME (4-pin cable in the correct position and polarity).

APPENDIX 1 - CC IN TABLES

CHANNEL (MIDI in from CH9 to CH16)

Relative to a particular channel, MIDI CH 1 modifies Track A, MIDI CH 2 modifies Track B

C C		Rotary / Button	Rotary / Button Behavior	
12	CV ADD	ROTARY	only incremental	Adds or subtracts the value to the global CV values, it affects all the patterns and is not destructive. It is link with CC 77, resetting the value to 0
13	CVP ADD	ROTARY	only incremental	Adds or subtracts the value to the global CVP values, it affects all the patterns and is not destructive. It is link with CC 78, resetting the value to 0
14	CVR ADD	ROTARY	only incremental	Adds or subtracts the value to the global CVR values, it affects all the patterns and is not destructive. It is link with CC 79, resetting the value to 0
15	GP ADD	ROTARY	only incremental	Adds or subtracts the value to the global GP values, it affects all the patterns and is not destructive. It is link with CC 80, resetting the value to 0
16	GL ADD	ROTARY	only incremental	Adds or subtracts the value to the global GL values, it affects all the patterns and is not destructive. It is link with CC 81, resetting the value to 0
17	GLP ADD	ROTARY	only incremental	Adds or subtracts the value to the global GLP values, it affects all the patterns and is not destructive. It is link with CC 82, resetting the value to 0
18	GLR ADD	ROTARY	only incremental	Adds or subtracts the value to the global GLR values, it affects all the patterns and is not destructive. It is link with CC 83, resetting the value to 0
19	R ADD	ROTARY	only incremental	Adds or subtracts the value to the global R values, it affects all the patterns and is not

				destructive. It is link with CC 84, resetting the value to 0
20	RP ADD	ROTARY	only incremental	Adds or subtracts the value to the global RP values, it affects all the patterns and is not destructive. It is link with CC 85, resetting the value to 0
21	RVP ADD	ROTARY	only incremental	Adds or subtracts the value to the global RVP values, it affects all the patterns and is not destructive. It is link with CC 86, resetting the value to 0
22	TRACK SHIFT	ROTARY	ABS / INC	
23	TRK LEN STRT	ROTARY	ABS / INC	
24	TRK LEN END	ROTARY	ABS / INC	
25	STEP MODE	ROTARY	ABS / INC	
26	STEP MODE DIV	ROTARY	ABS / INC	
27	STEP MODE REP	ROTARY	ABS / INC	
28	LFO TYPE	ROTARY	ABS / INC	
29	LFO PATTERN	ROTARY	ABS / INC	
30	LFO STEPS	ROTARY	ABS / INC	
31	LFO TIME	ROTARY	ABS / INC	Jumps 4 steps for each rotary detent
32	LFO AMPLITUDE	ROTARY	ABS / INC	
33	LFO OFFSET	ROTARY	ABS / INC	
70	FILL	BUTTON	PUSH	
71	MUTE	BUTTON	TOGGLE	
72	RANDOM 1 LAYER	BUTTON	PUSH	randomizes the selected track (midi CH 1 to 8)
73	RANDOM 3 LAYERS	BUTTON	PUSH	

74	CV GATE LINK	BUTTON	TOGGLE	
75	LFO RST	BUTTON	PUSH	
76	LFO ON/OFF	BUTTON	TOGGLE	
77	CV ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
78	CVP ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
79	CVR ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
80	GP ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
81	GL ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
82	GLP ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
83	GLR ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
84	R ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
85	RP ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0
86	RVP ADD reset	BUTTON	PUSH	relative to track add parameters. Resets to 0

GLOBAL (MIDI CH1)

relative to global parameters, or a group of tracks)

CC		Rotary / Button	Rotary / Button Behavior	
12	CV ADD	ROTARY	only incremental	Adds or subtracts CV value to the tracks assign in 'OPTIONS > CV ASSIGN > CV ADD', it affects all the patterns and is not destructive. It is link with CC 89, resetting the value to 0
13	TEMPO	ROTARY	only incremental	
14	GROUP SCALE ROOT 1	ROTARY	ABS / INC	
15	GROUP SCALE ROOT 2	ROTARY	ABS / INC	
16	GROUP SCALE ROOT 3	ROTARY	ABS / INC	
17	GROUP SCALE ROOT 4	ROTARY	ABS / INC	
18	GROUP SCALE ROOT 5	ROTARY	ABS / INC	
19	GROUP SCALE ROOT 6	ROTARY	ABS / INC	
20	GROUP SCALE ROOT 7	ROTARY	ABS / INC	
21	GROUP SCALE ROOT 8	ROTARY	ABS / INC	
22	GROUP SCALE 1	ROTARY	ABS / INC	
23	GROUP SCALE 2	ROTARY	ABS / INC	
24	GROUP SCALE 3	ROTARY	ABS / INC	
25	GROUP SCALE 4	ROTARY	ABS / INC	

26	GROUP SCALE 5	ROTARY	ABS / INC	
27	GROUP SCALE 6	ROTARY	ABS / INC	
28	GROUP SCALE 7	ROTARY	ABS / INC	
29	GROUP SCALE 8	ROTARY	ABS / INC	
30	TRACK SHIFT SELECTED	ROTARY	ABS / INC	Shifts the tracks selected in 'Track Shift Mode'
31	CLOCK OUT MULT	ROTARY	ABS / INC	
32	RANDOM LOW RANGE	ROTARY	ABS / INC	
33	RANDOM HIGH RANGE	ROTARY	ABS / INC	
34	STEP MODE SELECTED	ROTARY	ABS / INC	Changes the step mode in the tracks selected in the 'step mode section'
35	STEP DIV SELECTED	ROTARY	ABS / INC	Changes the step mode div in the tracks selected in the 'step mode section'
36	STEP REP SELECTED	ROTARY	ABS / INC	Changes the step mode rep in the tracks selected in the 'step mode section'
37	SHUFFLE	ROTARY	ABS / INC	
70	PLAY	BUTTON	PUSH	
71	STOP	BUTTON	PUSH	
72	RANDOM 1 LAYER SELECTED	BUTTON	PUSH	randomizes the selected tracks in 'Random Mode'
73	RANDOM 3 LAYERS SELECTED	BUTTON	PUSH	randomizes the selected tracks in 'Random Mode'
74	NEXT PATT	BUTTON	PUSH	
75	PREV PATT	BUTTON	PUSH	
76	NEXT PART	BUTTON	PUSH	
77	PREV PART	BUTTON	PUSH	

78	FREEZE	BUTTON	PUSH	
79	REVERT	BUTTON	PUSH	
80	PATTERN MODE	BUTTON	PUSH	
81	PLAY PARTS MODE	BUTTON	PUSH	
82	DUPLICATE	BUTTON	PUSH	
83				
84	PROJECT MODE	BUTTON	PUSH	
85	GATE REC MODE	BUTTON	PUSH	
86	CV KEY REC MODE	BUTTON	PUSH	
87	MIDI KEY REC MODE	BUTTON	PUSH	
88	FREE PLAY MODE	BUTTON	PUSH	
89	RESET CV ADD	BUTTON	PÙSH	
90	CLEAR CURRENT TRACK	BUTTON	PÙSH	
91		BUTTON	PÙSH	
92	eme btn 1	BUTTON	PÙSH	executes the action that is assigned to the button
93	eme btn 2	BUTTON	PÙSH	executes the action that is assigned to the button
94	eme btn 3	BUTTON	PÙSH	executes the action that is assigned to the button
95	eme btn 4	BUTTON	PÙSH	executes the action that is assigned to the button
96	dj nudge bck coarse	BUTTON	PÙSH	
97	dj nudge bck fine	BUTTON	PÙSH	

98	dj nudge fwd fine	BUTTON	PÙSH	
99	dj nudge fwd coarse	BUTTON	PÙSH	
100	mute mode	BUTTON	PÙSH	
101	Fill mode	BUTTON	PÙSH	
102	copy	BUTTON	PÙSH	
103	paste	BUTTON	PÙSH	
104	clear	BUTTON	PÙSH	

FOCUS (MIDI CH2)

Relative to a particular channel that is currently chosen in the elo interface (track keys) or the step edition mode (cv,gl,r...)

CC		Rotary / Button	Rotary / Button Behavior	
12	CV ADD	ROTARY	only incremental	Adds or subtracts CV value to the current track (chosen with track buttons), it affects all the patterns and is not destructive. It is link with CC 93, resetting the value to 0
13	CVP ADD	ROTARY	only incremental	
14	CVR ADD	ROTARY	only incremental	
15	GP ADD	ROTARY	only incremental	
16	GL ADD	ROTARY	only incremental	
17	GLP ADD	ROTARY	only incremental	
18	GLR ADD	ROTARY	only incremental	
19	R ADD	ROTARY	only incremental	
20	RP ADD	ROTARY	only incremental	
21	RVP ADD	ROTARY	only incremental	
22	STEP 1	ROTARY	ABS / INC	changes the value of the parameter depending on the choice of channel and step mode edition. If eloquencer is is CVP mode and in track E, it will change the CVP value of track E for step 1

23	STEP 2	ROTARY	ABS / INC	
24	STEP 3	ROTARY	ABS / INC	
25	STEP 4	ROTARY	ABS / INC	
26	STEP 5	ROTARY	ABS / INC	
27	STEP 6	ROTARY	ABS / INC	
28	STEP 7	ROTARY	ABS / INC	
29	STEP 8	ROTARY	ABS / INC	
30	STEP 9	ROTARY	ABS / INC	
31	STEP 10	ROTARY	ABS / INC	
32	STEP 11	ROTARY	ABS / INC	
33	STEP 12	ROTARY	ABS / INC	
34	STEP 13	ROTARY	ABS / INC	
35	STEP 14	ROTARY	ABS / INC	
36	STEP 15	ROTARY	ABS / INC	
37	STEP 16	ROTARY	ABS / INC	
38	TRACK SHIFT	ROTARY	ABS / INC	
39	TRK LEN STRT	ROTARY	ABS / INC	
40	TRK LEN END	ROTARY	ABS / INC	
41	STEP MODE	ROTARY	ABS / INC	
42	STEP DIV	ROTARY	ABS / INC	
43	STEP REP	ROTARY	ABS / INC	
44	LFO TYPE	ROTARY	ABS / INC	
45	LFO PATTERN	ROTARY	ABS / INC	
46	LFO STEPS	ROTARY	ABS / INC	
47	LFO TIME	ROTARY	ABS / INC	
48	LFO AMPLITUDE	ROTARY	ABS / INC	
49	LFO OFFSET	ROTARY	ABS / INC	

23	STEP 2	ROTARY	ABS / INC	
24	STEP 3	ROTARY	ABS / INC	
25	STEP 4	ROTARY	ABS / INC	
26	STEP 5	ROTARY	ABS / INC	
27	STEP 6	ROTARY	ABS / INC	
28	STEP 7	ROTARY	ABS / INC	
29	STEP 8	ROTARY	ABS / INC	
30	STEP 9	ROTARY	ABS / INC	
31	STEP 10	ROTARY	ABS / INC	
32	STEP 11	ROTARY	ABS / INC	
33	STEP 12	ROTARY	ABS / INC	
34	STEP 13	ROTARY	ABS / INC	
35	STEP 14	ROTARY	ABS / INC	
36	STEP 15	ROTARY	ABS / INC	
37	STEP 16	ROTARY	ABS / INC	
38	TRACK SHIFT	ROTARY	ABS / INC	
39	TRK LEN STRT	ROTARY	ABS / INC	
40	TRK LEN END	ROTARY	ABS / INC	
41	STEP MODE	ROTARY	ABS / INC	
42	STEP DIV	ROTARY	ABS / INC	
43	STEP REP	ROTARY	ABS / INC	
44	LFO TYPE	ROTARY	ABS / INC	
45	LFO PATTERN	ROTARY	ABS / INC	
46	LFO STEPS	ROTARY	ABS / INC	
47	LFO TIME	ROTARY	ABS / INC	
48	LFO AMPLITUDE	ROTARY	ABS / INC	
49	LFO OFFSET	ROTARY	ABS / INC	

70	STEP 1	BUTTON	PUSH	Activates / deactivates the step 1 for the chosen track
71	STEP 2	BUTTON	PUSH	
72	STEP 3	BUTTON	PUSH	
73	STEP 4	BUTTON	PUSH	
74	STEP 5	BUTTON	PUSH	
75	STEP 6	BUTTON	PUSH	
76	STEP 7	BUTTON	PUSH	
77	STEP 8	BUTTON	PUSH	
78	STEP 9	BUTTON	PUSH	
79	STEP 10	BUTTON	PUSH	
80	STEP 11	BUTTON	PUSH	
81	STEP 12	BUTTON	PUSH	
82	STEP 13	BUTTON	PUSH	
83	STEP 14	BUTTON	PUSH	
84	STEP 15	BUTTON	PUSH	
85	STEP 16	BUTTON	PUSH	
86	FILL FOCUS	BUTTON	PUSH	
87	MUTE FOCUS	BUTTON	TOGGLE	
88	RANDOM 1 LAYER	BUTTON	PUSH	randomized the current chosen track
89	RANDOM 3 LAYERS	BUTTON	PUSH	randomized the current chosen track
90	LFO RST		PUSH	
91	LFO ON/OFF		TOGGLE	
92	CV GATE LINK		TOGGLE	
93	CV ADD reset		PUSH	
94	CVP ADD reset		PUSH	

95	CVR ADD reset		PUSH	
96	GP ADD reset		PUSH	
97	GL ADD reset		PUSH	
98	GLP ADD reset		PUSH	
99	GLR ADD reset		PUSH	
100	R ADD reset		PUSH	
101	RP ADD reset		PUSH	
102	RVP ADD reset		PUSH	

APENDIX 2

Next Part	push
Previous part	push
Next Part	push
Previous part	push
Pattern Mode	push
Play Parts Mode	push
Duplicate	push
Save Current Project	push
Project Mode	push
Gate Rec Mode	push
CV Keyboard Rec Mode	push
MIDI Keyboard Rec Mode	push
Free Play Mode	push
Fill 1	push
Fill 2	push
Fill 3	push
Fill 4	push
Fill 5	push
Fill 6	push
Fill 7	push
Fill 8	push
Mute 1	toggle
Mute 2	toggle
Mute 3	toggle
Mute 4	toggle

Mute 5	toggle
Mute 6	toggle
Mute 7	toggle
Mute 8	toggle
Random Selected 1 Layer	push
Random Selected 3 Layer	push
Random Focus 1 Layer	push
Random Focus 3 Layer	push
Focused LFO Reset	push
Focused LFO On/Off	toggle
Freeze	push
Revert	push
Nudge Back Coarse	push
Nudge Back Fine	push
Nudge Forward Fine	push
Nudge Forward Coarse	push
Mute Mode	push
Fill Mode	push