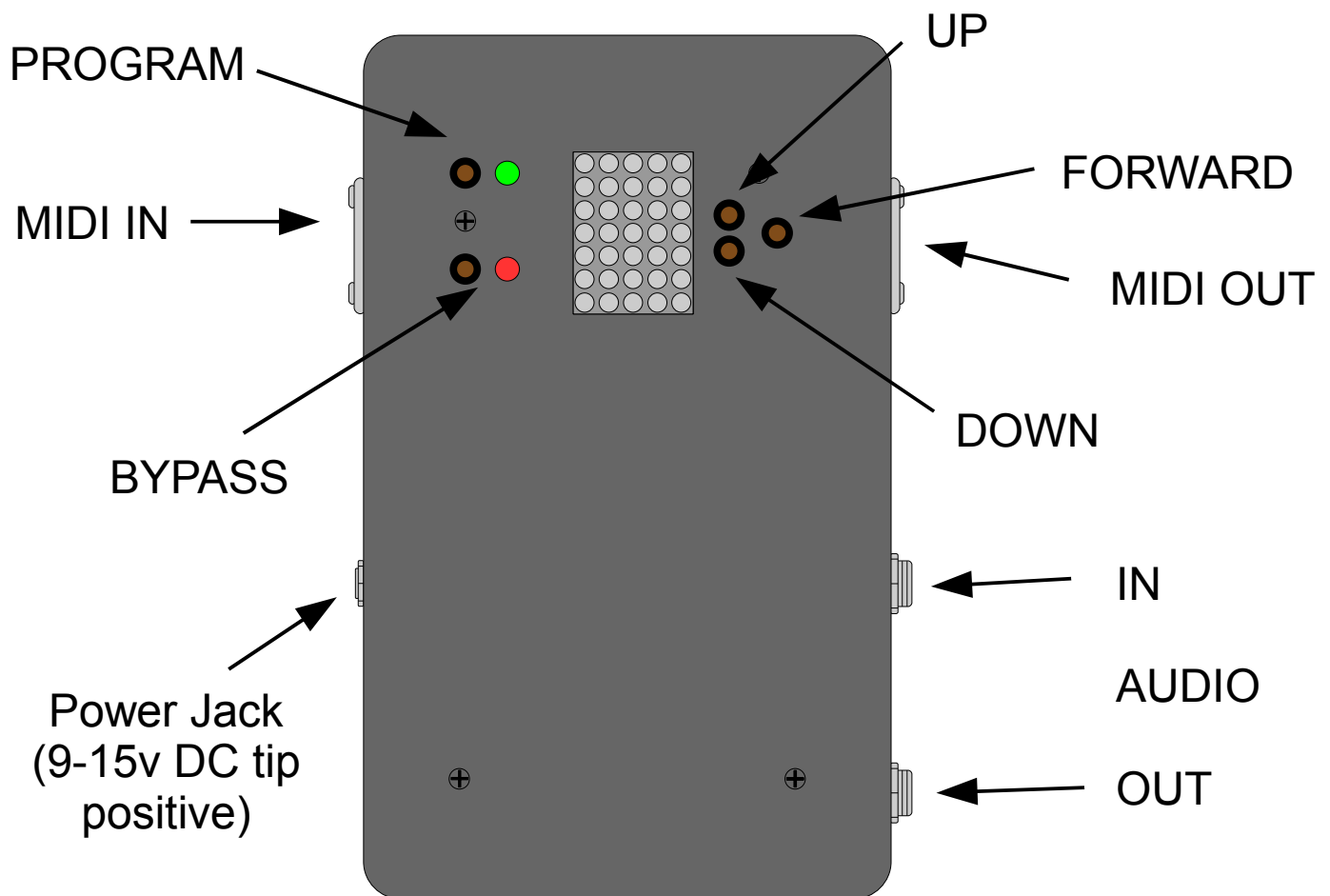


mEQ Instruction Manual
v1.0



Connectors:

- **Power Jack:** 2.1mm 9-15v DC tip positive
- **MIDI IN/OUT:** 5pin DIN
- **Audio IN/OUT:** 1/4" line level

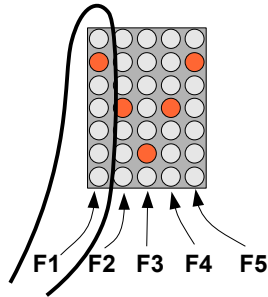
Buttons:

- **Program:** Stores any changes to the current patch. When the LED is lit, the current patch has been modified. Hold the Program button for 3 seconds to switch between patch edit and configuration modes.
- **Bypass:** Toggles (current patch) between active and (true) bypassed. The LED is lit when the unit is active and off when bypassed.
- **Forward:** In the patch edit mode this button advances to the next setting. In the configuration mode this button selects or toggles the current selection
- **Up:** In the patch edit mode this button increases the boost of the currently selected frequency or volume. In the configuration mode this button advances the cursor in the "up" direction.
- **Down:** In the patch edit mode this button decreases the boost of the currently selected frequency or volume. In the configuration mode this button advances the cursor in the "down" direction.

Features and Functionality Overview

♦ 5 Frequencies:

- F1: 100Hz
- F2: 280Hz
- F3: 800Hz
- F4: 2300Hz
- F5: 6600Hz



- ♦ **20 Patches** — 20 unique EQ “curves” and volume (attenuation) settings. The unit responds to standard MIDI Program Change commands. If a program number higher than 20 is received then the unit uses the remainder of dividing the new program number by 20 (prog num **mod** 20)

- ♦ **Instant Access to Frequencies and Volume** - The current patch's frequencies, volume and the bypass/active state can all be adjusted on the fly by using MIDI Controller Change (CC) commands. You can enable or disable this functionality in the configuration mode. Also, in the configuration mode, you set the base controller number. Each function has an offset to the base controller number.

- Base Controller: **Bypass:** Values: 0 = bypass, 1 = active, 2 and up = toggle
- Base Controller + 1: **Volume:** Values: 0 – 127
- Base Controller + 2: **Frequency 1:** Values: 0 – 127 (64 = “flat”)
- Base Controller + 3: **Frequency 2:** Values: 0 – 127
- Base Controller + 4: **Frequency 3:** Values: 0 – 127
- Base Controller + 5: **Frequency 4:** Values: 0 – 127
- Base Controller + 6: **Frequency 5:** Values: 0 – 127

Example: Base Controller = 80

MIDI CC to controller 80 a value of 1 : activates the unit

MIDI CC to controller 81 a value of 64 : sets the volume to ½ max

MIDI CC to controller 84 a value of 0 : cuts F3 (800Hz) to its minimum

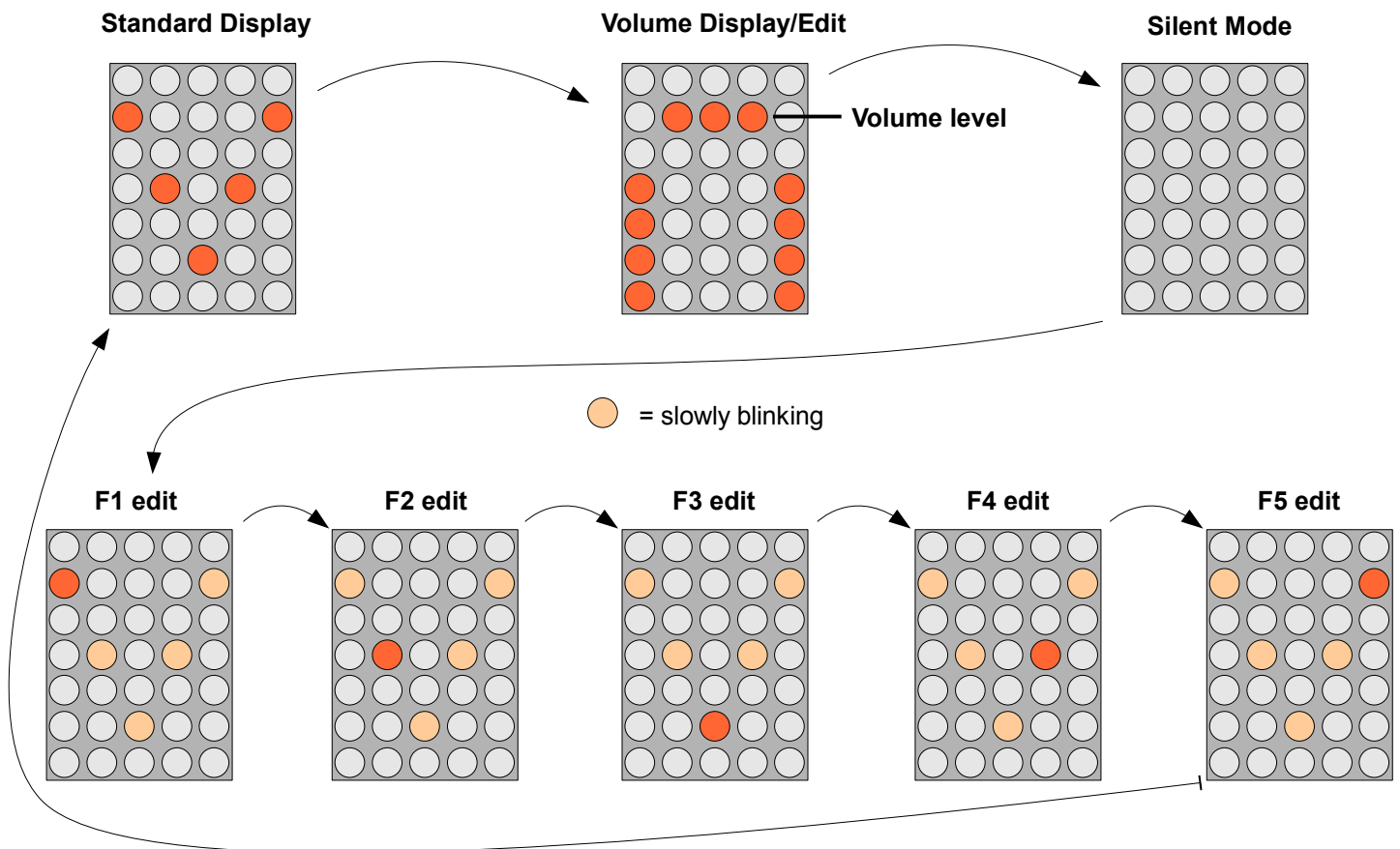
MIDI CC to controller 82 a value of 127 : boosts F1 (100Hz) to its maximum

•

Patch Edit Mode

The patch edit mode has eight settings/selections. Press the forward button to advance through each one. The unit powers up into selection #1. Pressing the forward button while in selection #8 takes you back to #1.

- 1) Standard Display** - The EQ “curve” for the current patch is displayed.
- 2) Edit / Display Volume** - The current patch's volume (attenuation) is displayed. Use the up and down arrows to adjust the volume/attenuation.
- 3) Silent Mode** - The display remains blank. If you use the unit in front of your amp (pre-gain), this reduces some potential digital switching noise.
- 4) Edit F1** - Use the up and down buttons to change the boost/cut of frequency #1
- 5) Edit F2** - “ for frequency #2
- 6) Edit F3** - “ for frequency #3
- 7) Edit F4** - “ for frequency #4
- 8) Edit F5** - “ for frequency #5



Configuration Mode

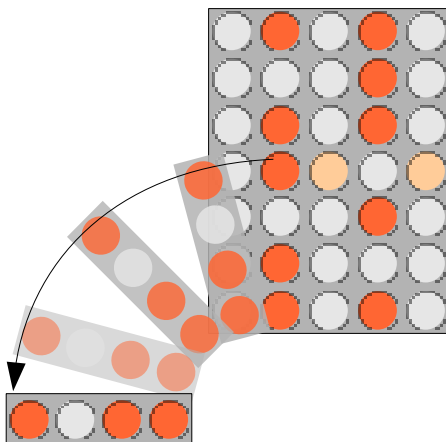
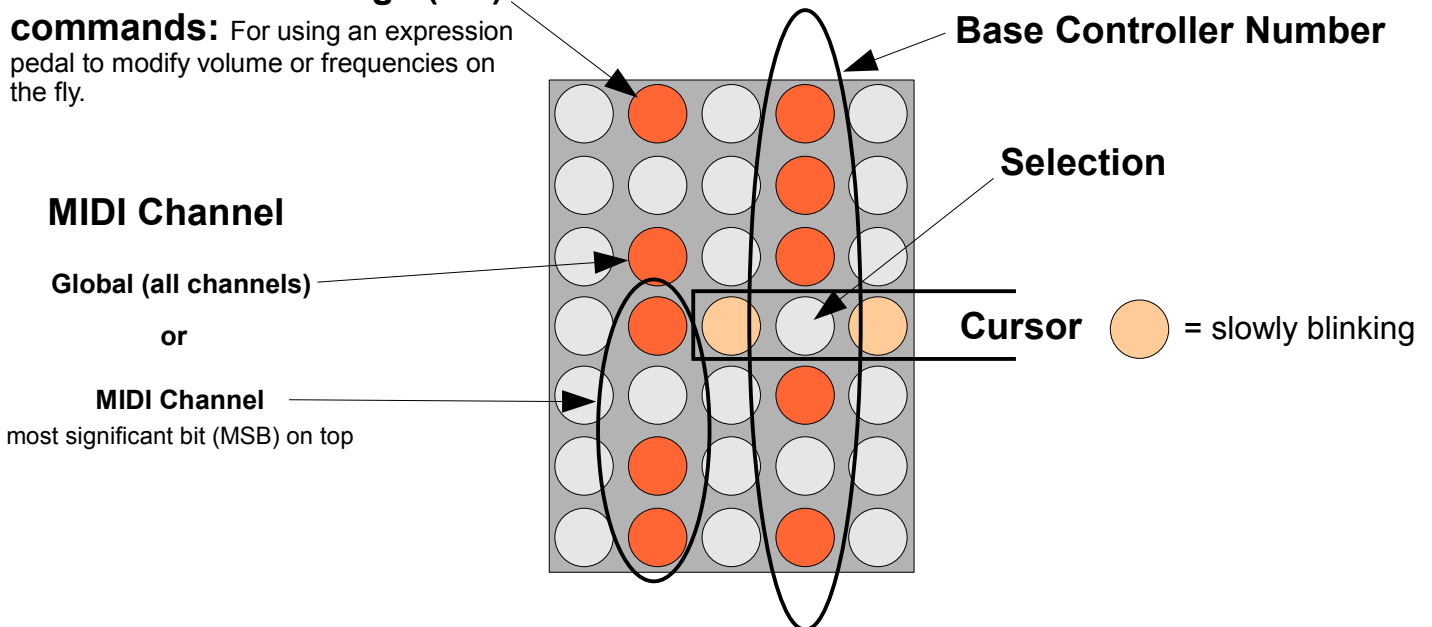
The configuration mode uses two columns:

- Left Column: Instant access (controller change) on/off **and** the MIDI channel options.
- Right Column: Base Controller Number for instant access functions.

Pressing the forward button toggles the selection at the cursor. The up and down buttons move the cursor accordingly. If the cursor is at the top of one of the columns, pressing up again will move it to the other column.

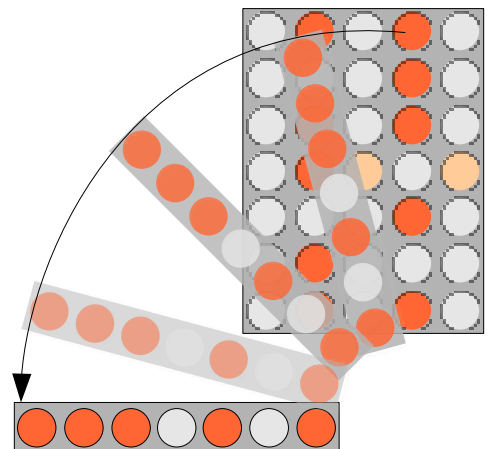
Use Controller Change (CC)

commands: For using an expression pedal to modify volume or frequencies on the fly.



MIDI Channel = 12

See conversion chart on page 6



Base Controller Number = 117

See conversion chart on page 6

MIDI Channels

LEDs	MIDI Channel	LEDs	MIDI Channel
●●●●●	1	●●●●●	9
●●●●●	2	●●●●●	10
●●●●●	3	●●●●●	11
●●●●●	4	●●●●●	12
●●●●●	5	●●●●●	13
●●●●●	6	●●●●●	14
●●●●●	7	●●●●●	15
●●●●●	8	●●●●●	16

MIDI Controller Numbers

LEDs	Controller	LEDs	Controller	LEDs	Controller	LEDs	Controller
●●●●●	0	●●●●●	32	●●●●●	64	●●●●●	96
●●●●●	1	●●●●●	33	●●●●●	65	●●●●●	97
●●●●●	2	●●●●●	34	●●●●●	66	●●●●●	98
●●●●●	3	●●●●●	35	●●●●●	67	●●●●●	99
●●●●●	4	●●●●●	36	●●●●●	68	●●●●●	100
●●●●●	5	●●●●●	37	●●●●●	69	●●●●●	101
●●●●●	6	●●●●●	38	●●●●●	70	●●●●●	102
●●●●●	7	●●●●●	39	●●●●●	71	●●●●●	103
●●●●●	8	●●●●●	40	●●●●●	72	●●●●●	104
●●●●●	9	●●●●●	41	●●●●●	73	●●●●●	105
●●●●●	10	●●●●●	42	●●●●●	74	●●●●●	106
●●●●●	11	●●●●●	43	●●●●●	75	●●●●●	107
●●●●●	12	●●●●●	44	●●●●●	76	●●●●●	108
●●●●●	13	●●●●●	45	●●●●●	77	●●●●●	109
●●●●●	14	●●●●●	46	●●●●●	78	●●●●●	110
●●●●●	15	●●●●●	47	●●●●●	79	●●●●●	111
●●●●●	16	●●●●●	48	●●●●●	80	●●●●●	112
●●●●●	17	●●●●●	49	●●●●●	81	●●●●●	113
●●●●●	18	●●●●●	50	●●●●●	82	●●●●●	114
●●●●●	19	●●●●●	51	●●●●●	83	●●●●●	115
●●●●●	20	●●●●●	52	●●●●●	84	●●●●●	116
●●●●●	21	●●●●●	53	●●●●●	85	●●●●●	117
●●●●●	22	●●●●●	54	●●●●●	86	●●●●●	118
●●●●●	23	●●●●●	55	●●●●●	87	●●●●●	119
●●●●●	24	●●●●●	56	●●●●●	88	●●●●●	120
●●●●●	25	●●●●●	57	●●●●●	89	●●●●●	121
●●●●●	26	●●●●●	58	●●●●●	90	●●●●●	122
●●●●●	27	●●●●●	59	●●●●●	91	●●●●●	123
●●●●●	28	●●●●●	60	●●●●●	92	●●●●●	124
●●●●●	29	●●●●●	61	●●●●●	93	●●●●●	125
●●●●●	30	●●●●●	62	●●●●●	94	●●●●●	126
●●●●●	31	●●●●●	63	●●●●●	95	●●●●●	127

