# 25 Piano Keys

When you press a key the controller sends Note-On (channel 0) with velocity. When you release a key the controller sends Note-Off (channel 0) with velocity=127 (fixed).

With neither octave lit the keys map from left to right: 48 .. 72.

One octave down: 36 .. 60

Two octaves down: 24 .. 48

Three octaves down: 12 .. 36

Four octaves down: 0 .. 24

One octave up: 60 .. 84

Two octaves up: 72 .. 96

Three octaves up: 84 .. 108

Four octaves up: 96 .. 120

The octave is “remembered”. If you go down three octaves by pushing down three times then you have to come back up three times. When you are in the middle, the octave lights are both off. If you are in any “down” octave then the down is lit. If you are in any “up” then the up is lit.

# Knobs

The knobs send “Continuous Controller” events (“B0”). The knob at “min” sends value 0. The knob at “max” sends 127. The upper left knob sends “B0 01 VV”. Moving to the right sends “B0 01 VV” and so on left to right top to bottom. The bottom right knob sends “B0 08 VV”.

# Pads

With “CC” unlit the pads send Note-On and Note-Off commands like piano keys. These are unaffected by “octave”.

Pad Bank 1 lit:

Pad1: midi note 44 .. Pad8: midi note 51. Note-On has velocity. Note-Off is always velocity 127.

Pad Bank 2 lit:

Pad1: midi note 33 .. Pad8: midi note 39

With “CC” lit the pads send “Continuous Controller” events (“B0”).

Pad Bank 1 lit:

Pad1: B0 01 VV (on) B0 01 00 (off). Pad8: B0 09 VV (on) B0 09 00 (off).

Pad Bank 2 lit:

Pad1: B0 0A VV (on) B0 01 00 (off). Pad 8: B0 11 VV (on) B0 11 00 (off).

# Program Change

With PROG CHANGE lit the pads send program change messages “C0”.

Pad bank 1 lit:

Pad 1: C0 00 .. Pad 8: C0 07

Pad bank 2 lit:

Pad 1: C0 08 .. Pad 8: C0 0F

# Program Button (Channel Number)

Hold the PROGRAM button and tap one of the far right 4 keys (PROG1 .. PROG4) to change the channel number sent in any commands.

PROG1: Channel 0 .. PROG4: Channel 3

# Sustain Button

The sustain button sends “B0 40 00” when pressed and “B0 40 7F” when released.

# Arpeggiator

Sends tempo-controlled notes. The tap-tempo button and many keys on the keyboard control this feature.