

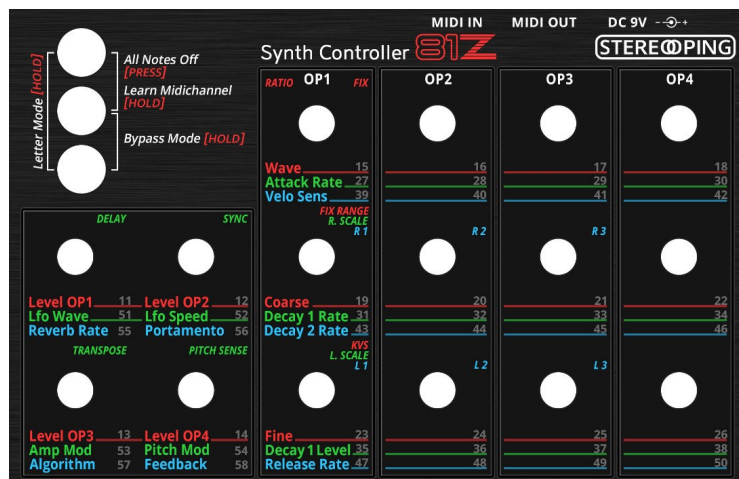
Synth Controller manual addendum for edition '81Z'

Update 2025/06

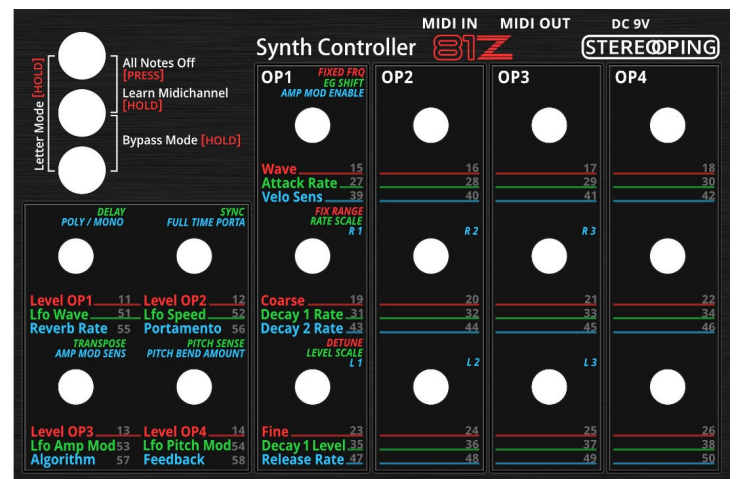
Since June 2025 we offer an updated Version of the 81Z Controller, faceplate as well as firmware. The following changed:

- The red Shift-Parameter KVS was identical to the blue parameter ,Velo Sens', it was replaced with DETUNE.
- new global Shift-Parameters: POLY/MONO, FULL TIME PORTA, AMP MOD SENSE, PITCH BEND AMOUNT
- new per OP parameters: AMP MOD ENABLE, DETUNE
- some text renamings:
 - FIXED FRQ instead of RATIO / FIX
 - RATE SCALE instead of R. SCALE
 - LEVEL SCALE instead of L. SCALE

Apart from that everything is identical to the Version before 4.0, the new firmware is not running ,better' in any way. Unles you missed the new SHIFT parameters there is no need to update firmware and order a new faceplate. Both version side by side:



**Old version until 2025/06
Edition Firmware V3.4**



**New version from 2025/06
Edition Firmware V4.x**

Technical requirements

In case the TX81Z shows no reaction when dialing knobs on the Synth Controller: Besides setting the midichannels to the same channel, are you sure the TX81Z's parameter **UTILITY – MIDI CONTROL – 'Exclusive:on'** is set to ON? Otherwise the TX81Z will ignore SysEx commands.

The midibuffer (internal memory for incoming data) of the TX-81Z is very small. To prevent it's overflow - indicated by a display saying 'Midibuffer full' - we had to decrease the frequency, mididata is sent from the Synth Controller to the TX-81Z. Please do not be annoyed if the speed of parameter changes is not THAT fast as in the other editions.

'Letter Dial Mode'

In Letter Dial Mode you can use the pots to easily change the patch name. Depending on the lettercount of the patchname there might be some pots left over doing nothing. This not only saves you time, it is also funny and inspiring finding crazy names while cranking the pots around.

The span of available letters normally corresponds to the ASCII character standard. That means there are nearly 100 different characters to choose from, some synthesizers from japan even offer additional hiragana or kanji characters. To enhance precision for hitting the desired letter we clamped the span of a pot dial to the first 64 letters omitting the small characters at the end of the ASCII table. So keep in mind: if you want to use small letters in your patchname you have to use your synths interface for fine tuning the patchname. You can leave the Letter Dial Mode by pressing any of the 3 single buttons.

Compatibility to DX-100/DX-11

You got a DX-11 or DX-100 and ask yourself if the Synth Controller will work with it? Yes! A customer made a test with his TX81Z and his DX-11 – it worked equally well on both. On the DX100 just those parameters will work which are identical to the TX81Z's and which are supported by the controller.

Shift parameters

SHIFT parameters are printed in italic letters above to the right of the dial. This italic parameter is active as long as you hold the button of it's color.

Red:

- Per operator you can switch between *RATIO* or *FIX* – if the Operator should follow your keypressing or it's frequency remains unchanged
- *RANGE* per operator. Sets initial frequency if Operator is set to *FIX*
- *DETUNE* per operator

Green:

- *RATE SCALING* per operator, shortens envelope times the higher the keypress
- *LEVEL SCALING* per operator, makes the operator's level lower towards higher keys
- *LFO DELAY*
- *LFO SYNC*
- *PITCH SENSE* – sets how much the entire voice reacts to (LFO, Atouch etc.)
- *TRANSPOSE* – transposes the whole voice between C1 and C5, this pot is 'centered', it's middle position is C3

Blue:

- *POLY / MONO*
- *FULL TIME PORTA*
- *AMP MOD SENSE* (Global)
- *PITCH BEND AMOUNT*
- Pitch envelope for DX11, *RATE 1-3* and *LEVEL 1-3*. These parameters will be ignored by the TX81Z as it has got no pitch envelope.