How to Display sysEx messages for the Icon Pro Audio Platform D2

The Mackie Control Protocol system information generally looks like this;

0xf0 0x00 0x00 0x66 0x14 0x12 0x00 0x30 0x31 0x32 0x33 0xf7 0xf0 0x00 0x00 0x66 0x14 0x12 0x39 0x36 0x37 0x38 0x39 0xf7

At first glance, it looks very complicated, so let's break it down into understandable chunks;

0xf0 0x00 0x00 0x66 0x14 0x12	0x00	0x30 0x31	0x32 0x33	0xf7
0xf0 0x00 0x00 0x66 0x14 0x12	0x39	0x36 0x37	0x38 0x39	0xf7



These values do not change. For the purposes of this learning resource, we can forget about them.





0xf7 is the system message end

This is the first part of the address – the important data which tells the D2 which line of the display to display the data on. If it is less than 0x38 (56 in decimal), it will be displayed on the second line of the Platform D2. If it is greater than or equal to 0x38, it will be displayed on the first line of the Platform D2.

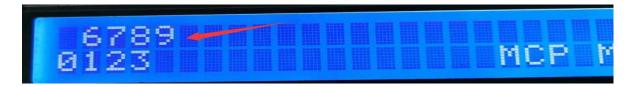
This is the content to be displayed (in ASCII format). In the example, the display on the Platform D2 is 1- 4 characters in the second line which is displaying 0123 and 2-5 characters on the first line displaying 6789. *See opposite panel for additional information*.

FACT CHECK

The D2 can display a total of 56x2 characters, which corresponds to the system information sent by the DAW, (this can differ from DAW to DAW). A total of 8 tracks of information (such as track name) can be displayed. Up to 7 characters can be displayed per track. If under 7 characters, spaces should be used to ensure that the information of each track is aligned with the fader and the encoder.

Additional Information

If the blue section is smaller than 0x38, the number of characters in the pink section plus the blue section should be less than or equal to 56 (the excess will not be displayed). Similarly, If the blue section is greater than or equal to 0x38, then the number of characters in the pink section plus the blue section should be less than or equal to 112 (the excess will not be displayed).



If you send the SYSEX MIDI data from the example to the Platform M+ via USB, the Platform D2 will display as above.