



TC-Helicon Quintet MIDI System Exclusive

Version 1.1

Note: All numerical values will appear in HEXADECIMAL notation unless otherwise indicated:

0xF0 = F0h = F0 – The latter value is the expression of the hex numeral used.

Decimal equivalents will appear in brackets after their hex counterparts:

0xF0 = F0h = F0 = (240)

0x64 = 64h = 64 = (100)

General message format:

F0	MIDI System exclusive message start
00	3 byte manufacturers ID for TC-Helicon
01	...
38	...
<Device ID>	System exclusive device ID (user parameter)
4D	Quintet model ID
<Message ID>	Quintet message type identifier (see table below)
<Data>	Data – depends on message type (see format description. below)
...	
...	
F7	MIDI System exclusive message terminator

Preset numbers

Preset numbers are represented in the SysEx messages as 1 byte.
Preset number zero is the currently edited preset, and 1 to 50 are as is.

Message data format

The format of the data used/needed in the different SysEx messages depends on the type of message. Below are descriptions for each message type explaining data formatting.

SysEx message type	Identifier
Quintet Request Preset	17
Quintet Request All Presets	16
Quintet Preset Data Package	18
All CCs Request	32

Quintet Data Request messages

Preset Request - 17:

<Data> is 1 byte representing the number of the preset requested. The data transmitted by Quintet upon receiving this message will be formatted as a **Preset Data** message (see below for complete description)

All Presets Dump Request - 16:

<Data> is 1 byte and should be set to 0. Upon receiving this message, the Quintet will dump all 50 presets as consecutive individual **Preset Data** messages.

All CCs Request - 32:

<Data> is 1 byte and should be set to 0. Upon receiving this message, the Quintet will send out all of its CC values to reflect the state of the unit. The Quintet CC specification can be found in the Quintet Manual.

Quintet Data messages

Preset Data Package - 18:

<Data> is 15 bytes organized as follows (in sequence):

1 byte	Preset number
1 byte	Normal Button Bitfield
1 byte	Alternate Button Bitfield
1 byte	Alternate Root
1 byte	Alternate Scale Type
1 byte	Harmony Mode
1 byte	Harmony Root
1 byte	Harmony Type
1 byte	Harmony Smoothing
1 byte	Harmony Tuning Type
1 byte	Harmony Latch
1 byte	Lead Level
1 byte	Harmony Level
1 byte	Effects Level
1 byte	Reverb Type

Button Bitfields

Quintet allows the user to set harmony voicing using the six voicing buttons on the front panel. They are called from left to right: BASS, LOWER, LOW, UNISON, ABOVE, TOP
The button bitfield byte is made up of bits as follows:

Ogfedcba (only 7 bits used in a MIDI byte)

- a = BASS Enabled
- b = LOWER Enabled
- c = LOW Enabled
- d = UNISON Enabled
- e = ABOVE Enabled
- f = TOP Enabled
- g = Don't Care

Using a footpedal, Quintet allows for an alternate preset setting which gives the user a separate button voicing configuration, an alternate scale root, and an alternate scale type (only available in scale mode presets). Alternate settings are stored in the alternate fields of the **Preset Data Package** as seen above.