## MIDI Implementation Chart

| Function | | Transmitted | Recognised | Remarks |
|---|---|---|---|---|
| **Basic Channel** | Default | 1-16 | 1-16 | |
| | Changed | | | |
| **Mode** | Default | X | O | * Note 4 |
| | Messages | | | |
| | Altered | | | |
| **Note Number** | True Voice | O | O | * Note 5 |
| **Velocity** | Note On | O | X | |
| | Note Off | O | X | |
| **Aftertouch** | Key | X | X | |
| | Channel | X | X | |
| **Pitch Bend** | | X | X | |
| **Control Change** | | X | X | |
| **Program Change** | | X | O | * Note 2 |
| **System Exclusive** | | X | X | |
| **System Common** | MTC | X | X | |
| | Song Position | X | X | |
| | Song Select | X | X | * Note 3 |
| | Tune | X | X | |
| **System Real Time** | Clock | O | O | * Note 1 |
| | Commands | O | O | * Note 1 |
| **Aux Messages** | Local ON/OFF | X | X | |
| | All Notes Off | X | O | |
| | Active Sense | X | X | * Note 1 |
| | Reset | O | X | * Note 1 |

Notes:

1. Every MIDI Real Time message is passed thru.

2. Program 1-48 set the Mode.

3. If a Song Position Pointer is received the following Continue will preset the clock counter to sixteenth note resolution, otherwise Continue will reset all counters on the beat.

4. ANO and Channel Mode changes clear all notes.

5. Switches 1-8 are transmitted as Notes C, D, E, F, G, A, B, C.

O : Yes
X : No

## MIDI Program Changes

| | 1-8 <br> Modes | 9-16 <br> Length | 17-24 <br> Direction | 25-32 <br> Clock Division | 33-40 <br> MIDI Clock Division | 41-48 <br> MIDI Octave |
|---|---|---|---|---|---|---|
| 1 | Single OFF | Length N = 1 | Direction FORWARD | Clock ÷1 | MIDI ♪ Sixteenth | C1-C2 (36-48) |
| 2 | Single ON | Length N = 2 | Direction REVERSE | Clock ÷2 | MIDI ♪ Eighth | C2-C3 (48-60) |
| 3 | Direction FORWARD | Length N = 3 | Direction ALTERNATE | Clock ÷3 | MIDI ♪. Dotted Eighth | C3-C4 (60-72) |
| 4 | Direction REVERSE | Length N = 4 | 2x FWD 1x REV | Clock ÷4 | MIDI ♩ Quarter | C4-C5 (72-84) |
| 5 | Analogue Clock OFF | Length N = 5 | 3x FWD 1x REV | Clock ÷4 | MIDI ♩+♪ Five Sixteenth | C5-C6 (85-96) |
| 6 | Analogue Clock ON | Length N = 6 | 2x FWD 2x REV | Clock ÷6 | MIDI ♩. Dotted Quarter | C6-C7 (96-108) |
| 7 | MIDI Clock OFF | Length N = 7 | 3x FWD 3x REV | Clock ÷7 | MIDI ♩.. Double Dotted Quarter | |
| 8 | MIDI Clock ON | Length N = 8 | 4x FWD 4x REV | Clock ÷8 | MIDI ♩ Half | |

# HINTON INSTRUMENTS