



DIGITAL KEYBOARD  
TECLADO DIGITAL  
CLAVIER NUMÉRIQUE

*PSR*-**E223**

**YPT-220**

Data List  
Datenliste  
Liste des données  
Lista de datos  
Lista de dados

EN  
DE  
FR  
ES  
PT

# MIDI Implementation Chart / MIDI-Implementationstabelle / MIDI Implementation Chart / Gráfico de implementación MIDI / Tabela de execução de MIDI

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Model PSR-E223/YPT-220

MIDI Implementation Chart

Version:1.0

| Function...   | Transmitted  | Recognized  | Remarks  |
|---|--|---|--|
| Basic Default<br>Channel Changed  | 1 - 16<br>x  | 1 - 16<br>x   |  |
| Mode Default<br>Messages<br>Altered   | 3<br>x<br>*****  | 3<br>x<br>x   |  |
| Note Number : True voice  | 0 - 127<br>*****   | 0 - 127<br>0 - 127  |  |
| Velocity Note ON<br>Note OFF  | o 9nH,v=1-127 *2<br>x  | o 9nH,v=1-127<br>x  |  |
| After Touch Key's<br>Ch's   | x<br>x   | x<br>x  |  |
| Pitch Bend  | x  | o   |  |
| Control Change  | 0,32 o<br>1 x *1<br>6 x *1<br>38 x *1<br>7,10 o<br>11 x *1<br>64 o<br>71,73,74 x *1<br>72 x<br>84 x<br>91,93 o<br>96,97 x<br>100,101 x | o<br>o<br>o<br>x<br>o<br>o<br>o<br>o<br>x<br>o<br>o<br>o<br>o | Bank Select<br>Modulation wheel<br>Data Entry(MSB)<br>Data Entry(LSB)<br><br>Expression<br>Sustain<br><br>Release Time<br>Portamento Cntrl<br>Effect 1,3 Depth<br>RPN Inc,Dec<br>RPN LSB,MSB |
| Prog Change : True #  | o 0 - 127<br>*****   | o 0 - 127   |  |
| System Exclusive  | o  | o   |  |
| : Song Pos.<br>Common : Song Sel.<br>: Tune   | x<br>x<br>x  | x<br>x<br>x   |  |
| System : Clock<br>Real Time: Commands   | o<br>o   | o<br>o  |  |
| Aux :All Sound OFF<br>:Reset All Cntrls<br>:Local ON/OFF<br>Mes- :All Notes OFF<br>sages:Active Sense<br>:Reset | x<br>x<br>x<br>x<br>o<br>x   | o(120,126,127)<br>o(121)<br>o(122)<br>o(123-125)<br>o<br>x    |  |

\*1 Refer to #2 on page 3.

\*2 Refer to #6 on page 3.

Mode 1 : OMNI ON , POLY  
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON , MONO  
Mode 4 : OMNI OFF, MONO

o : Yes  
x : No

# MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI / Formato de dados MIDI

## NOTE:

- 1 By default (factory settings) the instrument ordinarily functions as a 16-channel multi-timbral tone generator, and incoming data does not affect the panel voices or panel settings. However, the MIDI messages listed below do affect the panel voices, auto accompaniment, and songs.
  - MIDI Master Tuning
  - System exclusive messages for changing the Reverb Type and Chorus Type.
- 2 Messages for these control change numbers cannot be transmitted from the instrument itself. However, they may be transmitted when playing the accompaniment, song or using the harmony effect.
- 3 Exclusive
  - <GM System ON> F0H, 7EH, 7FH, 09H, 01H, F7H
    - This message automatically restores all default settings for the instrument, with the exception of MIDI Master Tuning.
  - <MIDI Master Volume> F0H, 7FH, 7FH, 04H, 01H, II, mm, F7H
    - This message allows the volume of all channels to be changed simultaneously (Universal System Exclusive).
    - The values of "mm" is used for MIDI Master Volume. (Values for "II" are ignored.)
  - <MIDI Master Tuning> F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, II, cc, F7H
    - This message simultaneously changes the tuning value of all channels.
    - The values of "mm" and "II" are used for MIDI Master Tuning.
    - The default value of "mm" and "II" are 08H and 00H, respectively. Any values can be used for "n" and "cc."

- <Reverb Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 00H, mmH, IIH, F7H
  - mm : Reverb Type MSB
  - II : Reverb Type LSB
  - Refer to the Effect Map for details.
- <Chorus Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 20H, mmH, IIH, F7H
  - mm : Chorus Type MSB
  - II : Chorus Type LSB
  - Refer to the Effect Map for details.
- 4 When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted. When the clock is set to External, both FAH (accompaniment start) and FCH (accompaniment stop) are recognized.
- 5 Local ON/OFF
  - <Local ON> Bn, 7A, 7F
  - <Local OFF> Bn, 7A, 00
  - Value for "n" is ignored.
- 6 Since this keyboard does not have touch response, the level of the sound does not change in response to your playing strength. As a result, when you play the keyboard, the velocity value transmitted via MIDI is fixed. However, the velocity of the accompaniment and song playback does change in response to performance data received via MIDI.

## ■ Effect map .....

- \* When a Type LSB value is received that corresponds to no effect type, a value corresponding to the effect type (coming the closest to the specified value) is automatically set.
- \* The numbers in parentheses in front of the Effect Type names correspond to the number indicated in the display.

### ● REVERB

| TYPE MSB | TYPE LSB  |   |   |   |            |            |    |           |    |  |
|----------|-----------|---|---|---|------------|------------|----|-----------|----|--|
|          | 0         | 1 | 2 | 8 | 16         | 17         | 18 | 19        | 20 |  |
| 0        | No Effect |   |   |   |            |            |    |           |    |  |
| 1        | (01)Hall1 |   |   |   | (02)Hall2  | (03)Hall3  |    |           |    |  |
| 2        | Room      |   |   |   |            | (04)Room1  |    | (05)Room2 |    |  |
| 3        | Stage     |   |   |   | (06)Stage1 | (07)Stage2 |    |           |    |  |
| 4        | Plate     |   |   |   | (08)Plate1 | (09)Plate2 |    |           |    |  |
| 5...127  | No Effect |   |   |   |            |            |    |           |    |  |

### ● CHORUS

| TYPE MSB | TYPE LSB  |   |            |             |    |             |    |    |    |  |
|----------|-----------|---|------------|-------------|----|-------------|----|----|----|--|
|          | 0         | 1 | 2          | 8           | 16 | 17          | 18 | 19 | 20 |  |
| 0...63   | No Effect |   |            |             |    |             |    |    |    |  |
| 64       | Thru      |   |            |             |    |             |    |    |    |  |
| 65       | Chorus    |   | (2)Chorus2 |             |    |             |    |    |    |  |
| 66       | Celeste   |   |            |             |    | (1)Chorus1  |    |    |    |  |
| 67       | Flanger   |   |            | (3)Flanger1 |    | (4)Flanger2 |    |    |    |  |
| 68...127 | No Effect |   |            |             |    |             |    |    |    |  |