

ASHLY 4.24G - Active Channel Updates

A 4.24G channel becomes the 'active channel' when a Sys-Ex Data Inquiry message is received via MIDI or RS-232, (Refer to *4.24G_GS_Protocol.doc*). It remains as the active channel until an inquiry for another channel is received, or the power is cycled. *Note: a 4.24G contains four discreet channels.* The active channel will transmit update messages to a MIDI or RS-232 control device, whenever a user modifies the active channel's parameters via the 4.24G's front panel. There are ten different update messages, as follows:

1. Preset Recall
2. Mute status change
3. Function in/out status change
4. Flatten all EQ faders
5. Display mode (screen) change
6. EQ/Master level fader change
7. Limiter fader change
8. HPF/LPF change
9. Delay change
10. Comp-Limiter pre/post change

Preset Recall

The 4.24G will transmit a 'Sys-Ex Data Inquiry Response' whenever a new preset is recalled on the active channel. Refer to *4.24G_GS_Protocol.doc* System Exclusive Messages section for details of the Inquiry Response message.

Mute Status Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	<i>Start Byte:</i>	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	<i>MSG Type:</i>	\$08	Mute status update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$0x	Mute status byte: \$00 = not muted, \$01 = muted
8	<i>End Byte:</i>	\$F7	Sys-Ex end of transmission byte

Function In/Out Status Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	<i>Start Byte:</i>	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	<i>MSG Type:</i>	\$09	Function in/out status update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$0x	Function affected: \$00=EQ, \$01=Comp-Lim, \$02=HPF/LPF, \$03=Delay
8		\$0x	New status: 0='out', any other value = 'in'
9	<i>End Byte:</i>	\$F7	Sys-Ex end of transmission byte

Flatten All EQ Faders

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	Start Byte:	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	MSG Type:	\$0A	Flatten EQ faders update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7	End Byte:	\$F7	Sys-Ex end of transmission byte

Display Mode (Screen) Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	Start Byte:	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	MSG Type:	\$0B	Display mode (screen) change update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$0x	New display screen: \$00=EQ, \$01=Comp-Lim, \$02=HPF/LPF, \$03=Delay
8	End Byte:	\$F7	Sys-Ex end of transmission byte

EQ/Master Level Fader Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	Start Byte:	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	MSG Type:	\$0C	EQ/Master Level update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$xx	Fader's MIDI Controller Number, refer to 4.24G_GS_Protocol.doc
8		\$0x	Fader's new MIDI Controller Value, refer to 4.24G_GS_Protocol.doc
9	End Byte:	\$F7	Sys-Ex end of transmission byte

Limiter Fader Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	Start Byte:	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	MSG Type:	\$0D	Comp-Limiter update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$xx	Fader's MIDI Controller Number, refer to 4.24G_GS_Protocol.doc
8		\$0x	Fader's new MIDI Controller Value, refer to 4.24G_GS_Protocol.doc
9	End Byte:	\$F7	Sys-Ex end of transmission byte

HPF/LPF Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	<i>Start Byte:</i>	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	<i>MSG Type:</i>	\$0E	HPF/LPF update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$xx	HPF/LPF MIDI Controller Number, refer to <i>4.24G_GS_Protocol.doc</i>
8		\$0x	HPF/LPF's new MIDI Controller Value, refer to <i>4.24G_GS_Protocol.doc</i>
9	<i>End Byte:</i>	\$F7	Sys-Ex end of transmission byte

Delay Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	<i>Start Byte:</i>	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	<i>MSG Type:</i>	\$0F	Delay update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$xx	New Delay value's most significant byte [base2: 0xxxxxxx zyyyyyyy]
8		\$yy	New Delay value's least significant byte with its Most Sig. Bit removed
9		\$0z	New Delay value's Most Significant Bit of the least significant byte
9	<i>End Byte:</i>	\$F7	Sys-Ex end of transmission byte

Comp-Limiter Pre/Post Change

<u>Byte#</u>		<u>Value</u>	<u>Description</u>
0	<i>Start Byte:</i>	\$F0	Sys-Ex status byte (\$ denotes hexadecimal)
1		\$00	Sys-Ex id escapement
2		\$01	Ashly MIDI manufacturer id most significant byte
3		\$2A	Ashly MIDI manufacturer id least significant byte
4		\$01	Digital Graphic EQ family model number
5	<i>MSG Type:</i>	\$26	Comp-Limiter location update message
6		\$0n	n = MIDI channel number (\$0-F), of the active channel
7		\$xx	Comp-Limiter location: \$00 = Pre-EQ, \$10 = Post-EQ
8	<i>End Byte:</i>	\$F7	Sys-Ex end of transmission byte

Note: \$ denotes a hexadecimal number