





GENERAL INFORMATION			
SIMPLWINDOWS NAME:	Bose EX Series Group LevelMute Control v3.2		
CATEGORY:	Conferencing		
VERSION:	3.2		
SUMMARY:	The Group LevelMute Control component offers a single point of control for groups created in ControlSpace Designer.		
GENERAL NOTES:	IMPORTANT: While this module suite supports the majority of the Bose EX Series family, there may be certain modules or module attributes that are not supported by certain devices. Please refer to the Bose ControlSpace Serial Control Protocol v5.10 documentation for more information regarding which controls are supported for the device you are using.		
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.		
VENDOR FIRMWARE:	v2.520		



Certified Module

Manufacturer: Bose Model: EX Series



PARAMETERS:	
Group_Number	Set to the number of the group to be controlled.
Upper_Limit	Defines the upper limit of the volume control in decibels.
Lower_Limit	Defines the lower limit of the volume control in decibels.
Level_Step	Defines the step size in decibels that the level in increase or decrease when the Level_Up or Level_Down signals are pulsed or held.
Command_Processor_ID	The unique identifier for the command processor module this module will register with.







CONTROL:		
Level_Up	D	Pulse to raise level by the amount indicated in the 'Level_Step' parameter. Holding this signal high will continuously ramp up the level.
Level_Down	D	Pulse to lower level by the amount indicated in the 'Level_Step' parameter. Holding this signal high will continuously ramp down the level.
Mute_On	D	Pulse to turn on the mute state of the controlled group.
Mute_Off	D	Pulse to turn off the mute state of the controlled group.
Mute_Toggle	D	Pulse to toggle the mute state of the controlled group.
New_Level_Percent	Α	Set to the desired level percentage of the specified group. Valid values include 0 to 65535 representing 0% to 100% where 0% is the value of the Lower_Limit parameter and 100% is the value of the Upper_Limit parameter.
Set_New_Level_Percent	D	Pulse to push to new level percentage value of the New_Level_Percent signal to the EX Series device.
New_Level_dB	Α	Set to the desired decibel value of the specified group. The valid range is the range set with the Upper_Limit and Lower_Limit parameters. This is a signed integer value.
Set_New_Level_dB	D	Pulse to push to new level decibel value of the New_Level_dB signal to the EX Series device.
Enable	D	Latch high to enable this component.







FEEDBACK:		
Is_Initialized	D	Indicates the module is registered to the command processor and is synchronized with current device state when the signal is high, or not synchronized with current device state when the signal is low.
Mute_ls_On	D	Indicates that the current mute state of the controlled group is on.
Mute_ls_Off	D	Indicates that the current mute state of the controlled group is off.
Volume_Level_Percent	Α	Indicates current volume level as a percentage in relation to the Upper_Limit and Lower_Limit parameters.
Volume_Level_dB	Α	Indicates the current volume level in decibels.
Is_Quarantined	D	Indicates that there was a problem getting this component initialized due to a configuration issue when the signal is high, or that no initialization issue occurred when the signal is low. A quarantined component will not prevent the command processor or other components from getting initialized.





Device Type: Digital Signal Processor



TESTING:

OPS USED FOR TESTING: CP3 1.8001.4666.20418

MC4 2.8000.00017

SIMPL WINDOWS USED FOR TESTING: 4.2000.00

CRES DB USED FOR TESTING: 216.0500.002.00

DEVICE DATABASE: 200.24500.001.00

SYMBOL LIBRARY USED FOR TESTING: 1180

SAMPLE PROGRAM:

Bose EX Series v3.2 IP Demo.smw

Bose EX Series v3.2 RS232 Demo.smw

v3.0 - Initial Release

REVISION HISTORY: v3.1 – Fixed bug with multiple modules controlling level and mute attributes of multiple

ControlSpace blocks.

v3.2 – No updates have been performed.