Partner: Biamp
Model: Tesira
Device Type: Digital Signal Processor

CRESTRON
CERTIFIED INTEGRATED PARTNER

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Biamp Tesira Basic LevelMute Control v3.3
CATEGORY:	DSP
VERSION:	3.3
SUMMARY:	This module controls only DSP objects that have a level and a mute attribute.
GENERAL NOTES:	This Biamp Tesira Basic LevelMute Control v3.3 module is used to control a DSP object with both a "level" and a "mute" attribute. Use the Level and State control modules when needing to control something else. *The following are required*. **Instance_Tag**: Instance_Tag is the unique name that was assigned inside the Biamp Tesira Programming. *Note: If your Instance_Tag has spaces in its name, surround the name with quotes using the \x22 hex escape sequence. Example: \x22My Name\x22* **Level_Step**: Selection to choose the dB offset for Incrementing and Decrementing. *The following maybe optional*. **Index_1**: When controlling a Biamp Tesira object, part of the control protocol may use Index_1. When Index_1 is not required, the parameter needs to be set to 0. **Index_2**: When controlling a Biamp Tesira object, part of the control protocol may use Index_2. When Index_2 is not required, the parameter needs to be set to 0. Index_1 in most cases represents the input value, and Index_2 represents the output value. So when dealing with things like Crosspoints, both Index_1 and Index_2 are required. Understanding the Biamp Tesira control object is mandatory in order to setup this module correctly.
CRESTRON HARDWARE REQUIRED:	3-series & 4-series processors **only** (*Note: use 1.X modules for 2-series processors*)

GENERAL INFORMATION *continued*

SETUP OF CRESTRON HARDWARE:	This module requires the Biamp Tesira Command Processor IP v3.3 or the Biamp Tesira Command Processor RS232 v3.3 modules in order to operate. Please read the help files associated with these modules.
VENDOR FIRMWARE:	Tesira Firmware – 4.2.4.5

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PARAMETER:

Instance_Tag	Instance_Tag is the unique name, for the control object, that was assigned inside the Biamp Tesira Programming. *Note: If your Instance_Tag has spaces in its name, surround the name with quotes using the \x22 hex escape sequence. Example: \x22My Name\x22*
Index_1	When controlling a Biamp Tesira object, part of the control protocol may use Index_1. When Index_1 is not required, the parameter needs to be set to 0. Index_1 in most cases represents the input value, and Index_2 represents the output value. So when dealing with things like Crosspoints, both Index_1 and Index_2 are required. Understanding the Biamp Tesira control object is mandatory in order to setup this module correctly.
Index_2	When controlling a Biamp Tesira object, part of the control protocol may use Index_2. When Index_2 is not required, the parameter needs to be set to 0. Index_1 in most cases represents the input value, and Index_2 represents the output value. So when dealing with things like Crosspoints, both Index_1 and Index_2 are required. Understanding the Biamp Tesira control object is mandatory in order to setup this module correctly.
Level_Step	Selection to choose the dB offset for Incrementing and Decrementing.
Command_Processor_ID	Setting to indicate the ID for the command processor that this module will register itself with.

CONTROL:

Poll	D	Pulse to poll for the current value. If the control object that you are controlling has been able to successfully register a subscription, then this signal may not do anything. A subscription is a process of registering for unsolicited messages. Some Biamp Tesira Control objects have this capability.
Level_Up, Level_Down	D	Press and hold to adjust the volume level.
Mute_On, Mute_Off	D	Pulse to set Mute On or Off
Mute_Toggle	D	Pulse to invert Mute.
New_Level_Percent	A	Sets the value to be set using Send_New_Level_Percent. If the digital signal Send_New_Level_Percent is high when this value changes, the module will automatically send the new value. The value will be validated prior to sending to insure this value falls in the correct range. This is an **unsigned level**. Note: A debounce value of 300ms has been added preventing this value to be reset to quickly, thus safe guarding communication queues. DO NOT BYPASS. Note: this input is not designed to be used with a Ramp symbol in SIMPL Windows. It is only designed to be used for preset levels. Valid Range: 0d-65535d
Send_New_Level_Percent	D	Pulse to send the volume entered in the New_Level_Percent input. This will allow preset values to be sent to the Biamp.
Enable	D	Set High: Control Module Enabled. Set Low: Control Module Disabled. Note: Use a 1 for normal operation.

FEEDBACK:

Is_Initialized	D	Signal is high to indicate the module has successfully received all required responses from its initializing queries.
Volume_Level_Percent	A	Analog volume level value. This is the scaled unsigned level based on the Min/Max range for the level. Valid Range: 0d-65535d
Mute_Is_On	D	Signal is high to indicate Mute On state.
Mute_Is_Off	D	Signal is high to indicate Mute Off state.
Is_Quarantied	D	Signal is high to indicate that a component has failed to initialize because of configuration issues. The Command Processor will attempt to initialize the quarantined component again when a new connection has been established.

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TESTING:	
OPS USED FOR TESTING:	CP3: v1.8001.0146
SIMPL WINDOWS USED FOR TESTING:	4.2000.00.00
CRES DB USED FOR TESTING:	211.05.001.00
DEVICE DATABASE:	200.175.001.00
SYMBOL LIBRARY USED FOR TESTING:	1164
SAMPLE PROGRAM:	Biamp Tesira v3.3 IP Demo Biamp Tesira v3.3 RS232 Demo
REVISION HISTORY:	v3.0 – Initial Release v3.1 – Added quarantine functionality. Removed the 'get' query performed while ramping an attribute that does not have subscription capabilities. v3.2 – No revisions have been performed. v3.3 – No revisions have been performed.