



Manufacturer: BSS Audio
Model: BLU Series
Device Type: Audio DSP

GENERAL INFORMATION

SIMPLWINDOWS NAME:	BSS BLU Meter Control Module v1.0								
CATEGORY:	Audio DSP								
VERSION:	v1.0								
SUMMARY:	<p>This module is a control module for a suite of modules. The suite of modules utilizes the SIMPL# technology and will only work on the 3-Series Controller.</p> <p>The control modules are responsible for providing the actual control interface in SIMPL. With the SIMPL# technology, the Control modules no longer need to be physically "connected" to the command processor. They register themselves automatically behind the scenes. Each of the control modules also have a command processor ID parameter that you assign to the instance of the command processor to which they report to. You can virtually have an unlimited number of control modules report to a single instance of a command processor.</p> <p>The command processor must be initialized in order for this module to operate properly. Please see the BSS BLU Command Processor and BSS BLU RS232 Command Processor modules help files.</p> <p>This control module can control a bunch of different types of DSP control points. Assigning what type is controlled is handled by the "ControlType" module parameter field. Here is the list of Control Types.</p> <p>MeterRMS: Meter AnalogDialer: TX Meter AnalogDialer: RX Meter VoIPDialer: Line [A] TX Meter VoIPDialer: Line [A] RX Meter</p> <p>You will notice in the list above, that some of the items have "[A]" in the description fields. This is an indication that additionally the [A] module parameter need to be set to make that selection work.</p> <p>Utilizing these values saves you from hunting down even more data from the Audio Architect DSP Program. These values become obvious when you understand that they are based on what Input, Output, Line Number that you are controlling.</p> <p>In example: "VoIPDialer: Line [A] TX Meter" Selection The [A] Value is what Line you wish to control. So if you want to control Line 2. Your [A] Value is 2d.</p> <p>If the description of your selection does not contain [A], then the [A] parameter should be set to 0d. If only [A] exists in your description then the [A] parameter value would be set to the Input, Output or Room you wish to control.</p> <table border="1"> <thead> <tr> <th>Control Type</th><th>[A]</th></tr> </thead> <tbody> <tr> <td>MeterRMS: Meter</td><td>0d</td></tr> <tr> <td>AnalogDialer: TX Meter</td><td>0d</td></tr> <tr> <td>AnalogDialer: RX Meter</td><td>0d</td></tr> </tbody> </table>	Control Type	[A]	MeterRMS: Meter	0d	AnalogDialer: TX Meter	0d	AnalogDialer: RX Meter	0d
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	VoIPDialer: Line [A] TX Meter	1d or 2d (Line)
	VoIPDialer: Line [A] RX Meter	1d or 2d (Line)
GENERAL NOTES:		
CRESTRON HARDWARE REQUIRED:	3-Series Controller	
SETUP OF CRESTRON HARDWARE:	N/A	
VENDOR FIRMWARE:	This module was tested using BSS BLU Firmware Version: 86.02.02	
VENDOR SETUP:	The SIMPL Demo program provided works with the also include BSS DSP Programming File: "BSS Crestron Demo.audioarchitect"	
CABLE DIAGRAM:	This module does not communicate directly with the BSS DSP. Please see the BSS BLU Command Processor and BSS BLU RS232 Command Processor modules help files for connection information.	

CONTROL:

<u>Signal/Function Name</u>	<u>D.S.A</u>	<u>Digital, Serial, Analog signal property definition.</u>
Enabled	D	Setting this high will enabled the Meter with active changes. Setting low will stop the active changes. <i>NOTE: This is a very active control and should only be "enabled" when you are actually on the page that is displaying this information. Keeping it enabled could cause your Crestron controller to become sluggish.</i>

FEEDBACK:

<u>Signal/Function Name</u>	<u>D.S.A</u>	<u>Digital, Serial, Analog signal property definition.</u>
ActualValue	A	Percentage Value: 0d-100d
Gauge	A	16 Bit Value: 0d-65535d



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PARAMETERS:		
CommandProcessorID	A	Set this value to match the value set on Command Processor module. This is how the control module registers itself for control.
ObjectID	S	<p>Set this value to match the Object ID found in the BSS Audio Architect for the DSP object you wish to control. <i>This is a three byte hexadecimal value.</i></p> <p>You can find this Object ID by looking in the BSS Audio Architect software with the DSP program file opened. In the venue explorer will be list of DSP controls under the associated Node, in this example "Gain". You will see the address in square brackets with three values separated by commas "[0,1,1]". This is the Object ID, and the correct way to assign this in the module parameter field would be \x00\x01\x01.</p>
ControlType	A	<p>This control module can control a bunch of different types of DSP control points. Assigning what type is controlled is handled by the "ControlType" module parameter field. Here is the list of Control Types.</p> <p>MeterRMS: Meter AnalogDialer: TX Meter AnalogDialer: RX Meter VoIPDialer: Line [A] TX Meter VoIPDialer: Line [A] RX Meter</p> <p>You will notice in the list above, that some of the items have "[A]" in the description fields. This is an indication that additionally the [A] module parameter need to be set to make that selection work.</p> <p>Utilizing these values saves you from hunting down even more data from the Audio Architect DSP Program. These values become obvious when you understand that they are based on what Input, Output, Line Number that you are controlling.</p> <p>In example: "VoIPDialer: Line [A] TX Meter" Selection The [A] Value is what Line you wish to control. So if you want to control Line 2. Your [A] Value is 2d.</p>



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[A]	A	Please see “ControlType” parameter above for information about setting this value.												

TESTING:	
OPS USED FOR TESTING:	CP3 1.501.0025
SIMPL WINDOWS USED FOR TESTING:	4.05.03
DEVICE DB USED FOR TESTING:	79.05.002.00
CRES DB USED FOR TESTING:	59.00.002.00
SYMBOL LIBRARY USED FOR TESTING:	1012
SAMPLE PROGRAM:	BSS BLU v1.0 IP Demo.smw or BSS BLU v1.0 RS232 Demo.smw
REVISION HISTORY:	v1.0 – Initial Release