

**Partner: BSS**  
**Model: BLU Series**  
**Device Type: Digital Signal Processor**



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	BSS BLU Meter Control Module v1.4												
<b>CATEGORY:</b>	DSP												
<b>VERSION:</b>	v1.4												
<b>SUMMARY:</b>	<p>This module provides feedback for meters on the BSS BLU Series audio processors.</p> <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>												
<b>GENERAL NOTES:</b>	<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> <tr> <td>VoIPDialer: Line [A] TX Meter</td> <td>1d or 2d (Line)</td> </tr> <tr> <td>VoIPDialer: Line [A] RX Meter</td> <td>1d or 2d (Line)</td> </tr> </tbody> </table>	Control Type	[A]	MeterRMS: Meter	0d	AnalogDialer: TX Meter	0d	AnalogDialer: RX Meter	0d	VoIPDialer: Line [A] TX Meter	1d or 2d (Line)	VoIPDialer: Line [A] RX Meter	1d or 2d (Line)
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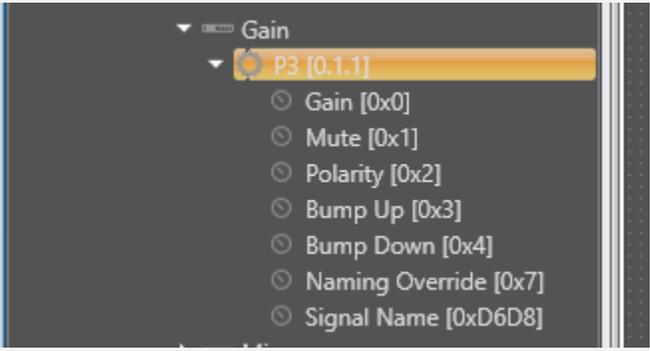
**GENERAL INFORMATION (continued)**

<b>CRESTRON HARDWARE REQUIRED:</b>	3-Series & 4-Series processors <b>only</b>
<b>SETUP OF CRESTRON HARDWARE:</b>	This module requires the BSS BLU Command Processor IP v1.4 or the BSS BLU Command Processor RS232 v1.4 modules in order to operate. Please read the help files associated with these modules.
<b>VENDOR FIRMWARE:</b>	This module was tested using BSS BLU Firmware Version: 86.04.2

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**PARAMETERS:**

<p><b>CommandProcessorID</b></p>	<p>Set this value to match the value set on Command Processor module. This is how the control module registers itself for control.</p>
<p><b>ObjectID</b></p>	<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> 
<p><b>ControlType</b></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>

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**PARAMETERS (continued):**

ControlType (continued)	<b>Control Type</b>	<b>[A]</b>
	MeterRMS: Meter	0d
	AnalogDialer: TX Meter	0d
	AnalogDialer: RX Meter	0d
	VoIPDialer: Line [A] TX Meter	1d or 2d (Line)
	VoIPDialer: Line [A] RX Meter	1d or 2d (Line)
[A]	Please see "ControlType" parameter above for information about setting this value.	

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**CONTROL:**

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>
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**FEEDBACK:**

<b>ActualValue</b>	A	Percentage Value: 0d-100d
<b>Gauge</b>	A	16 Bit Value: 0d-65535d

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<b>TESTING:</b>	
<b>OPS USED FOR TESTING:</b>	CP3 v1.8001.5061.26823 CP4 v2.8000.00017.01
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.2000.00
<b>DEVICE DB USED FOR TESTING:</b>	200.240.001.00
<b>CRES DB USED FOR TESTING:</b>	216.00.001.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	1179
<b>SAMPLE PROGRAM:</b>	BSS BLU v1.4 IP Demo.smw or BSS BLU v1.4 RS232 Demo.smw
<b>REVISION HISTORY:</b>	v1.0 – Initial Release v1.2 – No revisions have been performed v1.3 – No changes made v1.4 – Fix index issue with preset recall in library. – Updated level control demo to show use of SetValue.