

Partner: Clearone
Model: ConvergePro2
Device Type: Digital Signal Processor



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Clearone ConvergePro2 Room Generic Control v1.3
CATEGORY:	Mixer
VERSION:	1.3
SUMMARY:	This module controls objects in the Clearone ConvergePro2 "Room" controls in either a Digital, Analog or Serial manner, depending on your needs.
GENERAL NOTES:	<p>The Clearone ConvergePro2 Room Generic Control v1.3 module was created in order to allow for controlling "Room" objects within the ConvergePro2 program that may not be controllable using one of the other standard control modules included in the ConvergePro2 module package.</p> <p>The module is capable of controlling an end point Clearone object via either Digital, Analog, or Serial methods. Multiple Generic modules can be added to your programming to allow for a fully flexible solution to match any programming problem you might encounter.</p>
CRESTRON HARDWARE REQUIRED:	3-series processor only
SETUP OF CRESTRON HARDWARE:	This module requires the Clearone ConvergePro2 Command Processor IP v1.3 or the Clearone ConvergePro2 Command Processor RS232 v1.3 modules in order to operate. Please read the help files associated with these modules.
VENDOR FIRMWARE:	v5.0.35.0

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PARAMETER:

<p>Command_Processor_ID</p>	<p>Setting to indicate the ID for the command processor that this module will register itself with.</p>
<p>Room_Number</p>	<p>The parameter is used to set the 8Bit unsigned integer Room_Number. Valid values 1-255. <i>See protocol document for more information.</i></p>
<p>Option</p>	<p>The parameter is used to set what option you are controlling. Mode [X] Select [P1] Individual_Divider_State [P1] Divider_Polarity [P1] Divider_State [X] If you see the [P1] as part of the option description, the [P1] field needs to be entered correctly. This varies based on your selected option. The [P1] field is a serial, and needs to be formatted correctly in order to work. The [X] means the [P1] field will be ignored. However, something will need to be entered to stop SIMPL from complaining. <i>See protocol document for more information</i></p>
<p>[P1]</p>	<p>If you see the [P1] as part of the option description, the [P1] field needs to be entered correctly. This varies based on your selected option. The [P1] field is a serial, and needs to be formatted correctly in order to work. The [X] means the [P1] field will be ignored. However, something will need to be entered to stop SIMPL from complaining. <i>See protocol document for more information</i></p>
<p>Signal_Type</p>	<p>As the generic module is capable of supporting either digital, analog or serial control, this value indicates how you intend to use the module. Once a selection is made, the module will only operate on the inputs and outputs listed for that type and ignore any input and output changes for the other types. For instance, if the value is set to "Digital", the module will only respond to changes on the Digital inputs and only update values on the Digital outputs. In this case, changes and feedback on the Analog and Serial signals will not be processed or updated.</p>

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CONTROL:

Poll	D	Pulse to poll for the current value.
Digital_On, Digital_Off, Digital_Toggle	D	<p>Pulse to change the state of the digital inputs. These signals will only be processed if the "Signal_Type" parameter has been set to "Digital".</p> <p>Pulsing On will send a value of "1"</p> <p>Pulsing Off will send a value of "0"</p> <p>Pulsing toggle will send a value of "0" or "1", opposite of the current value.</p>
Analog_Value	A	<p>Analog value to be sent when the Analog_Set input is pulsed. This signal will only be processed if the "Signal_Type" parameter has been set to "Analog".</p> <p>Any 16bit signed value will be accepted. If the Analog_Set is high, the value will be sent automatically "as is" to the Clearone.</p> <p>Note: A debounce value of 300ms has been added preventing this value to be reset too quickly, thus safe guarding communication queues. DO NOT BYPASS.</p> <p>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 and SMART Graphic Sliders.</p>
Analog_Set	D	<p>Pulse to send the analog value entered in the Analog_Value input. This signal will only be processed if the "Signal_Type" parameter has been set to "Analog".</p> <p><i>When using SMART Graphic Sliders, tie the digital press join to this signal.</i></p>
Serial_Value	S	<p>Serial value to be sent when the Serial_Set input is pulsed. This signal will only be processed if the "Signal_Type" parameter has been set to "Serial". Use this signal when the formatting of the value the protocol is expecting does not fit in the digital or analog category. The value will be sent "as is" to the Clearone.</p>
Serial_Set	D	<p>Pulse to send the analog value entered in the Serial_Value input. This signal will only be processed if the "Signal_Type" parameter has been set to "Serial".</p>

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**FEEDBACK:**

Is_Initialized	D	Signal is high to indicate the module has successfully received all required responses from its initializing queries.
Digital_Is_On, Digital_Is_Off	A	Indicates the current digital state of the object being controlled. These signals will only be processed if the "Signal_Type" parameter has been set to "Digital".
Current_Analog_Value	A	Indicates the current analog state of the object being controlled. This signal will only be processed if the "Signal_Type" parameter has been set to "Analog".
Current_Serial_Value	S	Indicates the current serial state of the object being controlled. This signal will only be processed if the "Signal_Type" parameter has been set to "Serial".

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**TESTING:**

OPS USED FOR TESTING:	CP3: v1.503.3586
SIMPL WINDOWS USED FOR TESTING:	4.10.07
CRES DB USED FOR TESTING:	73.00.001.00
DEVICE DATABASE:	100.00.001.00
SYMBOL LIBRARY USED FOR TESTING:	1077
SAMPLE PROGRAM:	Clearone ConvergePro2 v1.3 IP Demo Clearone ConvergePro2 v1.3 RS232 Demo
REVISION HISTORY:	v1.0 – Initial Release v1.1 – No revisions have been made to this module. v1.2 – No revisions have been made to this module. v1.3 – No revisions have been made to this module.