

**Partner: APart**  
**Model: PM1122-INT**  
**Device Type: Pre-AMP**


**GENERAL INFORMATION:**

<b>SIMPLWINDOWS NAME:</b>	APart PM1122-INT v1.0.umc
<b>CATEGORY:</b>	PRE-AMP
<b>VERSION:</b>	v1.0
<b>SUMMARY:</b>	The module allows full control of the APart PM1122 PRE-AMP mixer through the PM1122-INT Digital Interface Remote.
<b>GENERAL NOTES:</b>	<p>The communication between Crestron and APart is made by a straight standard RS-232 connection.</p> <p>For each zone it is possible to:</p> <ul style="list-style-type: none"> <li>- Choose Between The 4 Sources (A – D)</li> <li>- Set Music Volume</li> <li>- Set Music Max Output</li> <li>- Set Music Min Output</li> <li>- Set Micro Volume</li> <li>- Set Micro Max Output</li> <li>- Set Micro Min Output</li> </ul> <p>Settings are stored in presets on the PM1122 itself. There are up to 64 presets possible.</p> <p>A Preset can be stored, cleared and recalled. These options can be applied to only Zone1, only Zone2 or both zones Zone1 AND Zone2.</p> <p>Whenever the PM1122 is power cycled the startup procedure needs to be triggered. This procedure turns off the echo from the PM1122 and turns the feedback of the controls On.</p> <p>To retrieve all the current states of the PM1122 trigger the "Get System Status" input of the module.</p> <p><b>!!!!IMPORTANT!!!!</b>  "Remote" needs to be selected on the Output zones on the PM1122 itself in order to let the module work.  <b>!!!!IMPORTANT!!!!</b></p>
<b>CRESTRON HARDWARE REQUIRED:</b>	Processor with a RS-232 port to control the PM1122-INT.
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	V1.0.1
<b>VENDOR SETUP:</b>	APart PM1122 connected to the PM1122-INT. Pro2 connected to the PM1122-INT through RS-232.

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<b>CABLE DIAGRAM:</b>	Standard Straight RS-232 Cable.
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### CONTROL:

Select Zone1 A	D	Pulse to select zone1 input A.
Select Zone1 B	D	Pulse to select zone1 input B.
Select Zone1 C	D	Pulse to select zone1 input C.
Select Zone1 D	D	Pulse to select zone1 input D.
Select Zone2 A	D	Pulse to select zone2 input A.
Select Zone2 B	D	Pulse to select zone2 input B.
Select Zone2 C	D	Pulse to select zone2 input C.
Select Zone2 D	D	Pulse to select zone2 input D.
Start up procedure	D	Pulse to start the start up procedure. This procedure turns off the echo and turns the feedback on.
Get system status	D	Pulse to get the current system status values.
Recall Up	D	Pulse to increment the Recall NR value.
Recall Down	D	Pulse to decrement the Recall NR value.
Recall Enter	D	Pulse to send the recall request with corresponding recall nr to the PM1122-INT.
Recall Zone1	D	Pulse to only recall in zone1.
Recall Zone2	D	Pulse to recall only in zone 2.
Recall Zone1&2	D	Pulse to recall in both zones.
Clear Up	D	Pulse to increment the Clear NR value.
Clear Down	D	Pulse to decrement the Clear NR value.
Clear Enter	D	Pulse to send the Clear request with corresponding Clear nr to the PM1122-INT.
Clear Zone1	D	Pulse to only Clear in zone1.
Clear Zone2	D	Pulse to Clear only in zone 2.

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<b>Clear Zone1&amp;2</b>	D	Pulse to Clear in both zones.
<b>Clear All</b>	D	Pulse to clear all the presets.
<b>Store Up</b>	D	Pulse to increment the Store NR value.
<b>Store Down</b>	D	Pulse to decrement the Store NR value.
<b>Store Enter</b>	D	Pulse to send the Store request with corresponding Store nr to the PM1122-INT.
<b>Store Zone1</b>	D	Pulse to only Store in zone1.
<b>Store Zone2</b>	D	Pulse to Store only in zone 2.
<b>Store Zone1&amp;2</b>	D	Pulse to Store in both zones.
<b>Music Vol Zone 1 Change</b>	A	Analog value containing the new Music Volume value to transmit to the device.
<b>Music Min Zone 1 Change</b>	A	Analog value containing the new Music Minimum value to transmit to the device.
<b>Music Max Zone 1 Change</b>	A	Analog value containing the new Music Maximum value to transmit to the device.
<b>Mic Volume Zone 1 Change</b>	A	Analog value containing the new Micro Volume value to transmit to the device.
<b>Micro Min Zone 1 Change</b>	A	Analog value containing the new Micro Minimum value to transmit to the device.
<b>Micro Max Zone 1 Change</b>	A	Analog value containing the new Micro Maximum value to transmit to the device.
<b>Music Vol Zone 2 Change</b>	A	Analog value containing the new Music Volume value to transmit to the device.
<b>Music Min Zone 2 Change</b>	A	Analog value containing the new Music Minimum value to transmit to the device.
<b>Music Max Zone 2 Change</b>	A	Analog value containing the new Music Maximum value to transmit to the device.
<b>Mic Volume Zone 2 Change</b>	A	Analog value containing the new Micro Volume value to transmit to the device.
<b>Micro Min Zone 2 Change</b>	A	Analog value containing the new Micro Minimum value to transmit to the device.
<b>Micro Max Zone 2 Change</b>	A	Analog value containing the new Micro Maximum value to transmit to the device.
<b>From device</b>	S	Needs to be connected with the RX output from the COM Port.

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**FEEDBACK:**

Zone1 A Is Selected	D	High to indicate that in Zone1 source A is selected.
Zone1 B Is Selected	D	High to indicate that in Zone1 source B is selected.
Zone1 C Is Selected	D	High to indicate that in Zone1 source C is selected.
Zone1 D Is Selected	D	High to indicate that in Zone1 source D is selected.
Zone2 A Is Selected	D	High to indicate that in Zone2 source A is selected.
Zone2 B Is Selected	D	High to indicate that in Zone2 source B is selected.
Zone2 C Is Selected	D	High to indicate that in Zone2 source C is selected.
Zone2 D Is Selected	D	High to indicate that in Zone2 source D is selected.
Remote Zone1 Is On	D	High to indicate that "Remote" Zone1 is selected on the device.
Remote Zone2 Is On	D	High to indicate that "Remote" Zone2 is selected on the device.
Recall Zone1 Is Selected	D	High to indicate that the recall is only intended for Zone1.
Recall Zone2 Is Selected	D	High to indicate that the recall is only intended for Zone2.
Recall Zone1&2 Is Selected	D	High to indicate that the recall is intended for both zones.
Clear Zone1 Is Selected	D	High to indicate that the Clear is only intended for Zone1.
Clear Zone2 Is Selected	D	High to indicate that the Clear is only intended for Zone2.
Clear Zone1&2 Is Selected	D	High to indicate that the Clear is intended for both zones.
Store Zone1 Is Selected	D	High to indicate that the Store is only intended for Zone1.
Store Zone2 Is Selected	D	High to indicate that the Store is only intended for Zone2.
Store Zone1&2 Is Selected	D	High to indicate that the Store is intended for both zones.
Recall NR	A	Analog value containing the preset nr that needs to be recalled.
Clear NR	A	Analog value containing the preset nr that needs to be Cleared.
Store NR	A	Analog value containing the preset nr that needs to be Stored.
Music Vol Zone 1 fb		Analog value containing the Music Volume for zone1 received from the PM1122.

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<b>Music Min Zone 1 fb</b>	A	Analog value containing the Music Minimum Volume for zone1 received from the PM1122.
<b>Music Max Zone 1 fb</b>	A	Analog value containing the Music Maximum Volume for zone1 received from the PM1122.
<b>Mic Vol Zone 1 fb</b>	A	Analog value containing the Micro Volume for zone1 received from the PM1122.
<b>Mic Min Zone 1 fb</b>	A	Analog value containing the Micro Minimum Volume for zone1 received from the PM1122.
<b>Mic Max Zone 1 fb</b>	A	Analog value containing the Micro Maximum Volume for zone1 received from the PM1122.
<b>Music Vol Zone 2 fb</b>		Analog value containing the Music Volume for zone2 received from the PM1122.
<b>Music Min Zone 2 fb</b>	A	Analog value containing the Music Minimum Volume for zone2 received from the PM1122.
<b>Music Max Zone 2 fb</b>	A	Analog value containing the Music Maximum Volume for zone2 received from the PM1122.
<b>Mic Vol Zone 2 fb</b>	A	Analog value containing the Micro Volume for zone2 received from the PM1122.
<b>Mic Min Zone 2 fb</b>	A	Analog value containing the Micro Minimum Volume for zone2 received from the PM1122.
<b>Mic Max Zone 2 fb</b>	A	Analog value containing the Micro Maximum Volume for zone2 received from the PM1122.
<b>To device</b>	S	Needs to be connected with the TX input from the COM Port.

## TESTING:

<b>OPS USED FOR TESTING:</b>	PRO2 4.001.1011 (Feb 10 2009)
<b>SIMPL WINDOWS USED FOR TESTING:</b>	v2.11.18
<b>CRESTRON DB USED FOR TESTING:</b>	v20.05.022.00
<b>DEVICE DB USED FOR TESTING:</b>	v21.00.007.00
<b>SAMPLE PROGRAM:</b>	APart PM1122-INT v1.0 PRO2 DEMO.smw
<b>REVISION HISTORY:</b>	V. 1.0