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| **SIMPLWINDOWS NAME:** | Gentner AP400 Multi Channel Volume Control |
| **CATEGORY:** | Conferencing |
| **VERSION:** | 1.0 |
| **SUMMARY:** | Selects and controls one of up to 9 channels of input or output volume |
| **GENERAL NOTES:** | The AP400 operates on a Gentner G-Link bus. Multiple AP units could be placed on the same bus. Each different device on the bus will have a unique unit ID. The module requires a unit ID as the first input. The unit ID has to be the HEX representation of if the Unit ID. For example, for a unit ID of 0, the correct input on the module would be 30H.<br><br>For a unit ID of 1, the correct input on the module would be 31H. The module must also be told if inputs, or outputs are being adjusted. This is defined on the PARAMETER-HEX input. If an input is being adjusted, use 49H. For an output use 4FH.<br><br>The module operates as follows:<br><br>1. Choose a channel - the AP400 will be polled for the current volume level and mute status for that channel and the bargraph will be updated.<br>2. The volume and mute for that channel can now be adjusted. |
| **CRESTRON HARDWARE REQUIRED:** | CNXCOM,<br>ST-COM |
| **SETUP OF CRESTRON HARDWARE:** | Tested and verified at the following settings:<br><br>Baud Rate -38400<br>Parity - None<br>Data Bits - 8<br>Stop Bits - 1<br><br>RTS and CTS enabled |
| **VENDOR FIRMWARE:** | Version 2.00 |
| **VENDOR SETUP:** | The AP400 serial port settings can be changed. Correct operation was verified when the following RS232 settings were used:<br><br>Baud Rate - 38400<br>Enable Modem - Off<br>Flow control - On |
| **CABLE NUMBER:** | CNSP-141 |

## CONTROL:

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| **UNIT-ID-HEX** | P | Hex version of AP400's unit ID. For ID 0, use 30H. For ID 1, use 31H |
| **PARAMETER-HEX** | P | Hex version of parameter to be adjusted. For Input, use 49H, for output use 4FH, for subbus use 53H |
| **CHANNEL-1-D** | P | Used to select the channel to be controlled |
| **VOL-UP** | D | Adjust volume up on selected channel |
| **VOL-DN** | D | Adjust volume down on selected channel |

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| **VOL-MUTE-ON** | D | Discretely mute volume on selected channel |
| **VOL-MUTE-OFF** | D | Discretely unmute volume on selected channel |
| **VOL-MUTE-TOG** | D | Toggle the state of mute on selected channel |
| **AUTO-POLL-OK?** | D | If high, each time a new channel is selected, the AP400 will be polled for its' status. If low, this polling will not occur. A 1 can usually be placed on this input |
| **AP400-RX$** | S | Serial data string to be routed from a CNXCOM, ST-COM, or CNXCOM |

## FEEDBACK:

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| **CHANNEL-1-D-FB** | A | Indicates which channel is being controlled |
| **VOL-BAR** | D | Analog signal indicating the level of the selected channel. Should be routed to a bargraph |
| **VOL-MUTE-ON-FB** | | Real feedback indicating that selected channel is muted |
| **VOL-MUTE-OFF-FB** | D | Real feedback indicating that the selected channel is not muted |
| **AP400-TX$** | S | Serial data string to be routed to a CNXCOM, ST-COM, CNXCOM |

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| **.UPZ FILE USED FOR TESTING:** | 5.04.05x.upz |
| **COMPILER USED FOR TESTING:** | SimplWindows Version 1.22 |
| **SAMPLE PROGRAM:** | GAP4TST1 |
| **REVISION HISTORY:** | AP40VMA - Original |