

SIMPLWINDOWS NAME: Gentner AP400 Single Channel Volume Control

CATEGORY: Conferencing

VERSION: 1.0

SUMMARY: Controls a single input or output channel of volume with a bargraph indication

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 the Unit ID.

For example, for a unit ID of 0, the correct input on the module would be 30H. For a unit ID of 1, the correct input on the module would be 31H.

Each AP400 has 9 input and output channels as well as subbuses. Using the CHANNEL-ID-HEX input, the module must be told which channel is to be adjusted. This is done in the same manner as the UNIT-ID-HEX was set. The channels should be addressed as follows:

Channel 1	31H
Channel 2	32H
Channel 3	33H
Channel 4	34H
Channel 5	41H
Channel 6	42H
Channel 7	43H
Channel 8	44H
Channel 9	54H

The module must also be told if an input, output or subbus is being adjusted. This is defined on the PARAMETER-HEX input. If an input is being adjusted, use 49H. For an output use 4FH (you will have to press F10 to accept this entry). For a subbus use 53H.

CRESTRON HARDWARE REQUIRED: CNXCOM, ST-COM

SETUP OF CRESTRON HARDWARE: Tested and verified at the following settings:

Baud Rate -38400
Parity - None
Data Bits - 8
Stop Bits - 1

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:

Baud Rate - 38400
Enable Modem - Off
Flow control - On

CABLE NUMBER: CNSP-141

CONTROL:

UNIT-ID-HEX	P	Hex version of AP400's unit ID. For ID 0, use 30H. For ID 1, use 31H
CHANNEL-ID-HEX	P	Hex version of channel to be adjusted. For channel info, see above.
PARAMETER-HEX	P	Hex version of parameter to be adjusted. For Input use 49H, for output use 4FH, for subbus use 53H
VOL-UP	D	Ramp the volume level up
VOL-DN	D	Ramp the volume level down
VOL-MUTE-ON	D	Discretely mute the channel
VOL-MUTE-OFF	D	Discretely unmute the channel
VOL-MUTE-TOG	D	Toggle the state of mute
AP400-RX\$	S	Serial data string to be routed from a CNXCOM, ST-COM, or CNXCOM

FEEDBACK:

VOL-BAR	A	Analog signal to be routed to a bargraph
VOL-MUTE-ON-FB	D	Real feedback indicating that the 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

.UPZ FILE USED FOR TESTING: 5.04.05x.upz
COMPILER USED FOR TESTING: SimplWindows Version 1.22
SAMPLE PROGRAM: GAP4TST1
REVISION HISTORY: AP40V1A - Original