Partner: Clearone
Model: XAP
Device Type: Volume Mixer

GENERAL INFORMATION

SIMPLWINDOWS NAME:	CMS Clearone XAP Volume and Mute
CATEGORY:	Volume
VERSION:	1.2
SUMMARY:	Send macros and generate feedback
GENERAL NOTES:	This module is designed to control volume and mute for AP/XAP series Audio Mixers using CMS Macro List. Will also generate needed feedback for input, output or matrix being controlled by macros. One module is used for each instance of volume/mute control. For example, one module would be used when sending macros for room volume controls and for generating feedback for same room controls. Device types are available via drop-down selection box in parameter fields labeled 'Volume_Device_Type', 'Mute_Device_Type' and 'Macro_Num_Device_Type'. Available selections are: AP800 / AP10 / AP400 / PSR1212 / XAP800 / XAP400 Also includes ability to offset macro values easily by sending numeric value using an Analog Initialize. By default, a offset value of 0d would be sent and all macro numbers will reside in a set range of 0 - 50. This allows for easy manipulation when a second range of macro numbers is needed for divisible room scenarios. If a value of 50d is sent, the new range of macro numbers is now 51 - 100.
CRESTRON HARDWARE REQUIRED:	C2-COM, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 38400 Parity: None Data Bits: 8 Stop Bits: 1 Handshaking: RTS/CTS
VENDOR FIRMWARE:	
VENDOR SETUP:	
CABLE DIAGRAM:	CNSP-xxx

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CONTROL:

Volume_Up	D	Will send associated macro number when initially pressed. Issues stop macro number when released.
Volume_Down	D	Will send associated macro number when initially pressed. Issues stop macro number when released.
Volume_Mute	D	Pulse to send associated macro number (typically mute toggle macro)
Macro_Offset_Value	A	Analog value generating offset value used for macro numbers being sent. Analog Initialize symbol should be used to set a default value of 0d.
Poll	D	Poll for current volume/mute state
Vortex-RX$	S	Serial signal to be routed to a 2-way RS232 port

FEEDBACK:

Volume_Bar	A	Current volume level
Mute_On_FB	D	Current mute state. Will be high when mute is on
Vortex-TX$	S	Serial signal to be routed to a 2-way RS232 port

PARAMETERS:

Volume_Device_Type	P	Specifies device type being controlled for volume (drop-down list)
Volume_Device-ID	P	Single numeric value indicating device ID being controlled for volume. For example, a numeric value of '0' would be used for controlling device ID-0.
Volume_Channel_Type	P	Specifies channel type controlled by volume macro (drop-down list)
Volume_Channel	P	Input, Output or Matrix number/letter controlled by volume macro.
Volume_Upper_Limit	P	Numeric number setting max volume used for specified channel (i.e. If range being used for volume channel is +15db to -35db, parameter would be set to 15d)
Volume_Lower_Limit	P	Numeric number setting minimum volume used for specified channel (i.e. If range being used for volume channel is +15db to -35db, parameter would be set to -35d)
Mute_Device_Type	P	Specifies device type being controlled for mute (drop-down list)

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Mute_Device_ID	P	Single numeric value indicating device ID being controlled for mute. For example, a numeric value of '0' would be used for controlling device ID-0.
Mute_Channel	P	Input, Output or Matrix number/letter controlled by mute macro.
Mute_Channel_Type	P	Specifies channel type controlled by mute macro (drop-down list)
Macro_Num_Device_Type	P	Specifies device type being controlled for macro numbers (drop-down list)
Macro_Num_Device_ID	P	Single numeric value indicating device ID being controlled for mute. For example, a numeric value of '0' would be used for controlling device ID-0.
Volume_Up_Macro_Num	P	Macro number used for volume up (based on CMS Macro List)
Volume_Down_Macro_Num	P	Macro number used for volume down (based on CMS Macro List)
Mute_Macro_Num	P	Macro number used for mute toggle (based on CMS Macro List)

TESTING:

OPS USED FOR TESTING:	V3.137 (Release)
SIMPL WINDOWS USED FOR TESTING:	SimpleWindows Version 2.07.32
CRES DB USED FOR TESTING:	18.15
SYMBOL LIBRARY USED FOR TESTING:	387
SAMPLE PROGRAM:	CMS Clearone XAP Volume Demo.smw
REVISION HISTORY:	v1.1 - Initial Release v1.2 - Added separate Device Type and Device ID for Macro Number parameters.

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