SIMPLWINDOWS NAME:	CM Automation PM-64 Single Channel Volume Adjust
CATEGORY:	Switcher
VERSION:	1.0
SUMMARY:	Allows control of ramping and mute on/off for a single input or output channel
GENERAL NOTES:	This module will control a CM Automation PM-64. Before any controls will function, you must unlock the switcher using the SOFT-LOCK-OFF input on the module. You could also unlock it from the front panel. The soft lock will remain off until it is turned back on at the switcher, or until the switcher is power cycled. The switcher boots up with soft lock on.
	Multiple switchers can be chained together, in which case each switcher would be assigned a unique channel number from 0 to F. You must specify which switcher you are talking to using the CHANNEL(0-F) input. If only one switcher is being used, the channel number is most likely 0. It should be entered as a single digit number with no suffix.
	This module allows a single channel of volume to be adjusted. It will work with either an input or output channel. Input channels 1-32 are specified as 00-1F in the SOURCE(00-32)-OR-DEST(20-3F) parameter field. Output channels 1-32 are specified as 20-3F in the SOURCE(00-32)-OR-DEST(20-3F) parameter field. This module only allows control of a single channel.
	You can also specify the ramp time. This is the time that will be taken to go from the lowest to the highest volume level. It is not recommended to use a time smaller than 5 seconds. The time should be entered into the RAMP-TIME parameter field in the format 5s.
	This module has a POLL input. When pulsed, it will poll the switcher for the current volume level of the selected zone. The actual level will then be reflected at the VOLUME-LEVEL output. This should only need to be done when the system is initializing, or after a preset has been recalled on the switcher.
CRESTRON HARDWARE REQUIRED:	CNXCOM, ST-COM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 38400 Parity - None Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	1.18
VENDOR SETUP:	None
CABLE NUMBER:	CNSP-123

CONTROL:

VOLUME-UP	D	Ramp the volume level up
VOLUME-DOWN	D	Ramp the volume level down
VOLUME-MUTE-ON	D	Pulse to mute the channel
VOLUME-MUTE-OFF	D	Pulse to unmute the channel
VOLUME-MUTE-TOGGLE	D	Pulse to toggle the state of mute for the channel

POLL	D	Pulse to poll the channel for the current level of it's volume setting
SOFT-LOCK-OFF	D	Pulse to turn off the "soft lock" on the switcher. Volume Adjustments may not be possible if soft lock is on
CM-AUTOMATION-RX$	S	Serial signal to be routed from a 2-way RS232 port
SOURCE-OR-DEST	P	Specifies which source or destination will be controlled. Should be entered in the format of a 2 digit number from 00-3F with no suffix
CHANNEL(0-F)	P	Specifies which switcher in a chain is being controlled. If only one switcher is being used, this should probably be defined as 0. The valid range is 0-F
RAMP-TIME	P	Specifies how much time will be taken when ramping between minimum and maximum volume levels

FEEDBACK:

VOLUME-LEVEL	A	Represents the current level of the zone
VOLUME-MUTE-FB	D	Indicates if the zone is in mute
CM-AUTOMATION-TX$	S	Serial signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	5.09.12
COMPILER USED FOR TESTING:	SimplWindows Version 1.30.01
SAMPLE PROGRAM:	CMA-TST
REVISION HISTORY:	None