

SIMPLWINDOWS NAME: CM Automation PM-64 Multi-Channel Volume Adjust

CATEGORY: Switcher

VERSION: 1.0

SUMMARY: Allows control of ramping of all input or output channels

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 volume adjustments on any input or output channel. You must first select which input or output you want to control using the SOURCE(00-32)-OR-DEST(20-3F) input. This input would typically be driven with an Analog Initialize symbol. Input channels 1-32 are specified as 00H-1FH in the Analog Initialize symbol. Output channels 1-32 are specified as 20H-3FH in the Analog Initialize symbol. As soon as the value of the SOURCE(00-32)-OR-DEST(20-3F) input changes, the module will automatically poll the switcher for the level of that zone, which will be reflected on the VOLUME-LEVEL output...provided that there is a 1 on the AUTO-UPDATE-ENABLE input. Otherwise, the switcher will not be polled automatically.

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:

Driven by an Analog Initialize symbol.

SOURCE-OR-DEST	A	Specifies which input or output is to be adjusted
VOLUME-UP	D	Ramp the volume level up
VOLUME-DOWN	D	Ramp the volume level down
POLL	D	Pulse to poll the channel for the current level of it's volume setting
AUTO-UPDATE-ENABLE	D	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
SOFT-LOCK-OFF	D	If high, the switcher will be polled whenever a new zone is selected.
CM-AUTOMATION-RX\$	S	Serial signal to be routed from a 2-way RS232 port
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
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