

SIMPLWINDOWS NAME: Crown USM-810 Basic Control

CATEGORY: Mixer

VERSION: 1.0

SUMMARY: Controls output levels/mutes and presets

GENERAL NOTES: This module will control a Crown USM-810 mixer. It allows for output level to be adjusted/muted. In addition, it allows for any of 32 available presets to be recalled or stored.

Storing a preset is a three step process:

1. Adjust the parameters as desired
2. Press the "Save" input..."Save_Fb" will go high
3. Press the preset number to save the configuration into

Note that the address of the USM must be specified in the "Address(01-FA) parameter field. This should be a two digit hex number from 01 - FA. So for an address of 3, enter 03.

Note that this module is designed to control a single mixer. If multiple USM-810's are being used, a separate module and com port should be used for each mixer.

This module has a "Poll" input. When pulsed, this will cause a full poll for the levels of all crosspoints, the state of all mutes, and the current preset. It will take about 1 second to complete. While the poll is in progress, no other functions should be activated.

In general, the only times a poll should be necessary would be when the system is initially turned on, or after recalling a preset. While the system is being polled, the "Poll_Busy" output will be high. If it is desired to adjust 2 channels simultaneously, you can tie two "**_Level" outputs to the same signal, so those two channels will always track each other. You can adjust those two levels using just one set of inputs on the module.

While the module is processing commands, the "Busy" output will be high.

CRESTRON HARDWARE REQUIRED: ST-COM, CNXCOM

SETUP OF CRESTRON HARDWARE: Baud Rate - 57600
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: None

VENDOR SETUP: Make sure that the address and baud rate set on the Crown system match the setup of the Crestron system.

CABLE NUMBER: CNSP-121

CONTROL:

PRESET_*	D	Pulse to save or recall a preset configuration
PRESET_SAVE	D	Pulse to put the module into preset save mode

*_SLIDER	A	Can be routed from a slider on a touchpanel
*_MUTE_ON/OFF/TOGGLE	D	Pulse to activate/deactivate or toggle the state of mute
POLL	D	Pulse to initiate a full poll of the system
FROM_DEVICE\$	S	Serial signal to be routed from a 2-way RS232 port
ADDRESS(01-FA)	P	Address of the USM-810. Should be a 2-digit hex number with no suffix

FEEDBACK:

PRESET_*_FB	D	Indicates which preset was last selected
PRESET_SAVE_FB	D	High when the module is in preset save mode
*_LEVEL	A	Reflects the actual level of the output channel. Should be routed to a bargraph or slider
*_MUTE_ON/OFF/TOG_FB	D	Indicates when mute is on/off
BUSY	D	High while the module is processing commands
POLL_BUSY	D	High while a poll is in progress
TO_DEVICE\$	S	Serial signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	5.12.26x.upz
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.12
SAMPLE PROGRAM:	Crown USM-810 Basic Demo
REVISION HISTORY:	None