

SIMPLWINDOWS NAME:	Nec 42MP1 Plasma Screen Basic Controls
CATEGORY:	Monitor
VERSION:	1.0
SUMMARY:	Controls power/source selection/mode/volume
GENERAL NOTES:	<p>This module will control all the basic functions of an NEC 42MP1 plasma screen.</p> <p>For all commands sent to the screen (except volume), an acknowledgment from the screen is waited for before updating the corresponding -FB output of the module. The -FB outputs will not go high unless a valid acknowledgment is received for the command sent. This is the limit of the feedback provided by the screen. There is no polling supported for power, mode, mute, volume, or OSM.</p> <p>For source selection, polling is supported. If you pulse the POLL-SOURCE input of the module, the currently selected source will be reflected at the SOURCE-* -FB output. If it is desired to continuously monitor the currently selected source, you could attach an oscillator to the POLL-SOURCE input.</p> <p>These polling limitations mean that if somebody activates a power, mode, osm, mute, or volume function using the infra-red remote, or the buttons on the screen, these actions will not be reflected on the Crestron system.</p>
CRESTRON HARDWARE REQUIRED:	CNXCOM, ST-COM CNXCOM-2
SETUP OF CRESTRON HARDWARE:	Baud Rate - 9600 Parity - Odd Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	None
CABLE NUMBER:	CNSP-124

CONTROL:

POWER-ON/OFF	D	Pulse to turn the screen on or off. The corresponding -FB output will go high after receiving an ACK from the screen
SOURCE-*	D	Pulse to select on of the sources. The corresponding -FB output will go high after receiving an ACK from the screen
MODE-*	D	Pulse to select one of the four available modes. The corresponding -FB output will go high after receiving an ACK from the screen
VOLUME-UP/DOWN	D	Press and hold to ramp the volume up or down.
MUTE-ON/OFF	D	Pulse to mute/unmute the audio. The corresponding -FB output will go high after receiving an ACK from the screen
OSM-ON/OFF	D	Pulse to activate/deactivate the on screen menu. The corresponding -FB output will go high after receiving an ACK from the screen
		Pulse to request the currently selected source.

POLL-SOURCE	D	The appropriate SOURCE-* -FB output will go high
NEC-RX\$	S	Serial signal to be routed from a 2-way RS232 port

FEEDBACK:

POWER-ON/OFF-FB	D	Indicates the last acknowledged power command sent to the screen by the Crestron system
SOURCE-* -FB	D	Indicates the last acknowledged source command sent to the screen by the Crestron system
MODE-* -FB	D	Indicates the last acknowledged mode command sent to the screen by the Crestron system
VOLUME-BAR	A	Indicates the last volume level sent from the Crestron system to the screen. Should be routed to a bargraph on a touch panel
MUTE-ON/OFF-FB	D	Indicates the last acknowledged mute command sent to the screen by the Crestron system
OSM-ON/OFF-FB	D	Indicates the last acknowledged OSM command sent to the screen by the Crestron system
NEC-TX\$	S	Serial signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	5.10.11x
COMPILER USED FOR TESTING:	SimplWindows Version 1.40.07
SAMPLE PROGRAM:	NEC 42MP1 Sample Program
REVISION HISTORY:	None