SIMPLWINDOWS NAME:	InFocus IOpen 920/LP920 Projector (Full Control)
CATEGORY:	Projector
VERSION:	1.0
SUMMARY:	Control power/standby/input select/picture adjustments
GENERAL NOTES:	This module will control all standard function as well as picture adjustments on an InFocus IOpen 920/LP920 video projector. True feedback is provided for power/standby/input status, as well as for the current picture adjustment levels, and elapsed lamp hours.
	Feedback is not instantaneous. After any command is sent, Crestron will poll the projector for the state of power/standby/input for 60 seconds. If it is desired to poll these parameters at other times, you can pulse the POLL-ENABLE input. This will cause each parameter to be polled once. It may take 20 seconds for the power status to be updated. It may take 5 or more seconds for the input or standby status to be updated. After any new source is selected, the Crestron system will poll the projector for the current picture adjustment settings and volume level.
	If it is desired to poll for the picture adjustments at other times, you can pulse the POLL-SETTINGS input. If it is desired to monitor the number of lamp hours that have elapsed, you can pulse the POLL-LAMP input. The number of elapsed hours will be reflected at the LAMP-HOURS analog output. There would be no need to poll this parameter any more often than once per hour.
	While the projector is off, it will not respond to any polls…including lamp hours. Polling will only work while the projector is powered on.
	If standby is turned on, you will not be able to select a new source.
	Note that this module uses Simpl+ and can therefore only be used in a Generation CNX control system.
	All inputs should be momentary, as if coming from buttons on a touchpanel.
CRESTRON HARDWARE REQUIRED:	CNXCOM, ST-COM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 19200 Parity - None Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	b1.4
VENDOR SETUP:	Use the port labeled RS232 Serial on the projector body.
CABLE NUMBER:	CNSP-124

CONTROL:

POWER-ON/OFF	D	Pulse to turn power on or off. This may take 20 seconds or more
INPUT-*	D	Pulse to select a new input

STANDBY-ON/OFF	D	Pulse to activate/deactivate standby. While standby is active, you cannot choose a new input
BRIGHTNESS-UP/DOWN	D	Press and hold to adjust the relative brightness level
CONTRAST-UP/DOWN	D	Press and hold to adjust the relative contrast level
COLOR-UP/DOWN	D	Press and hold to adjust the relative color level
TINT-UP/DOWN	D	Press and hold to adjust the relative tint level
SHARPNESS-UP/DOWN	D	Press and hold to adjust the relative sharpness level
COLOR-TEMP-UP/DOWN	D	Press and hold to adjust the relative color temperature level
VOLUME-UP/DOWN/MUTE	D	Press and hold to adjust the volume level up down
FREEZE-ON/OFF	D	Pulse to activate/deactivate Freeze mode
POLL-SETTINGS	D	Pulse to initiate the polling of the picture adjustment levels. This can generally be defined as 0
POLL-LAMP	D	Pulse to poll the number of elapsed lamp hours. This should not need to be done more often than once per hour
POLL-ENABLE	D	Pulse to initiate the polling of power/standby/input status. This can generally be defined as 0
INFOCUS-RX$	S	Serial signal to be routed from a 2-way RS232 port

FEEDBACK:

POWER-*-FB	D	True feedback indicating the state of power
INPUT-*-FB	D	True feedback indicating which input is currently active
STANDBY-*-FB	D	True feedback indicating the state of standby
*-BAR	A	True feedback indicating the current level of the various picture adjustments. Should be routed to bargraphs on a touchpanel
LAMP-HOURS	A	True feedback indicating the number of elapsed lamp hours
INFOCUS-TX$	S	Serial signal to be routed to a 2-way RS232 port

.UPZ FILE USED FOR TESTING:	5.11.65x.upz
COMPILER USED FOR TESTING:	SimplWindows Version 1.51.06
SAMPLE PROGRAM:	InFocus IOpen 920 Full Demo
REVISION HISTORY:	None