MFG: Sony   Model: PCS-1

Controls most standard functions on a Sony PCS-1 Videoconference System

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Sony PCS-1 Videoconference System Basic Control
CATEGORY:	Conferencing
VERSION:	1.0
SUMMARY:	Controls most standard function on a Sony PCS-1 Videoconference System. True feedback is provided where possible
GENERAL NOTES:	This module will control most standard functions on a Sony PCS-1 videoconference system. This includes manual dialing, video switching, camera control, volume control, and infra-red remote control emulation. This module does not provide direct access to the internal phone book stored on the Sony system. However, you can still access the phone book by using the Infra-red emulation functions, and the Sony On-Screen menus. True feedback is provided for certain parameters. This includes: Current volume level Privacy Call status for up to 5 calls Current Near End Source Selected Before using any other functions on the module, you must first pulse the Start_RS232 input. This will put the PCS-1 into RS232 control mode. This module allows emulation of all of the IR remote functions, using the IR_* inputs. This module also allows the status of the 5 lines to be polled for status. If the Poll_Enable input is high, the lines will be polled for status every 5 seconds. If this input is low, the line status will never be polled. The line status is reported as an analog value from 0d to 5d. 0d = Not Available, 1d = No Network Detected, 2d = Network Present But No Call In Progress, 3d = Call In Progress, 4d = Call Connected, 5d = Call Failed.
CRESTRON HARDWARE REQUIRED:	Any 2-Series or X-Generation Control System
SETUP OF CRESTRON HARDWARE:	Protocol – RS232 Baud Rate – 38400 Parity – None Data Bits – 8 Stop Bits - 1

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VENDOR FIRMWARE:	Tested With The following Versions:
	Host Version – 2.01
	ISDN Unit Version – 1.00
	DSP Version – 2.03
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-124

CNSP-124
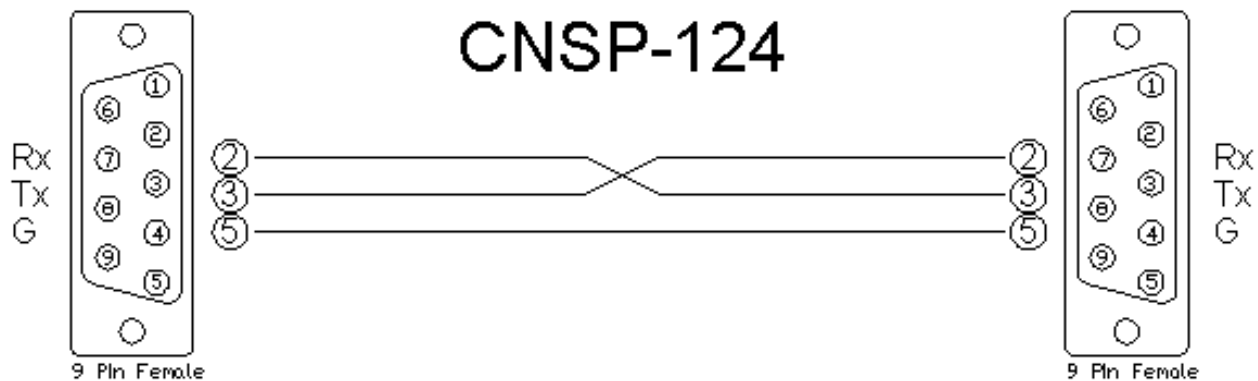
CONTROL:		
Start_RS232	D	Pulse to begin communications with the unit. This input must be pulsed before using any other functions on this module.
End_RS232	D	Pulse when finished communicating with the unit. This can typically be set to 0.
Power_On/Off	D	Pulse to power the unit on/off
Display_Near/Far_End	D	Pulse to select which image to view – Near or Far end video
Display_Cycle	D	Pulse to cycle between viewing near and far end video
Video_Input_1/2/3/4	D	Pulse to select which video input to send to the far end
Video_Input_Cycle	D	Pulse to cycle between the available video inputs to send to the far end

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Whiteboard_On/Off	D	Pulse to start or stop transmitting the whiteboard image. This should function independently of the current video source selected
DSB_On/Off	D	Pulse to start or stop transmitting the Data Solutions Box (DSB) image. This should function independently of the current video source selected
DSB_Input_A/B	D	Pulse to select which DSB image to transmit
Receive_Input_1/2/3/4/5	D	Pulse to pick which far end source you would like to receive
Receive_Input_Cycle	D	Pulse to cycle to the next available far end video source
Pip_Off/Top_Left/Top_Right/ Bottom_Right/Bottom_Left	D	Pulse to turn the PIP on/off, and to select the location of the PIP. Note this will only work while a call is in progress.
PIP_Cycle	D	Pulse to cycle the PIP to the next location
Volume_Up/Down	D	Press and hold to ramp the receive volume up/down
Privacy_On/Off/Toggle	D	Pulse to turn privacy (mic mute) on or off
Near/Far_End_Camera	D	Pulse to select the near or far end camera to control with the Camera_* inputs
Camera_*	D	Controls all available camera functions, including storing recalling up to 6 preset positions
Camera_Preset_Save	D	Pulse before saving a camera preset. The corresponding _Fb output will go high
Dial_Call_Type_ISDN/IP/Telephone	D	Pulse to select the call type for a manual dial call
Dial_Call_Quality_*	D	Pulse to select the quality (line speed) for a manual call
Dial_Call_Select_Number_1/2	D	Pulse to select number 1 or number 2 for entry
Dial_Call_Copy_Num1_To_Num2	D	Pulse to copy number 1 to number 2
Dial_Call_Clear_Num1_+_Num2	D	Pulse to clear both number 1 and number 2 fields
Dial_Call_Dial	D	Pulse to place the manually dialed call.
Dial_Call_Hang_Up_All	D	Pulse to hang up all currently active calls
Dial_Call_Hang_Up_A/B/C/D/E	D	Pulse to individually hang up any of the 5 possible calls
Dial_Call_Answer_Accept	D	Pulse to accept an incoming call
Dial_Call_Answer_Reject	D	Pulse to reject an incoming call
IR_*	D	Used to emulate all IR remote control functions
Numeric_Keypad_*	D	Used for entering any numeric information for placing calls
DTMF_*	D	Used to send DTMF touch tones
Poll_Enable	D	Hold high to enable polling of the line status

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From_Device$	S	Serial signal to be routed from a 2-way RS232 port

FEEDBACK:

Video_Input_*_Fb	D	True feedback indicating which near end video source is selected for transmission
Receive_Whiteboard_Start/Stop	D	Pulses when the near end system starts or stops receiving the whiteboard image from the far end
Receive_DSB_Start/Stop	D	Pulses when the near end system starts or stops receiving the DSB image from the far end
Volume_Bar	A	True feedback indicating the current receive volume level. Should be routed to a bargraph on a touch panel
Privacy_On/Off_Fb	D	True feedback indicating the state of privacy
Camera_Preset_Save_Fb	D	High while a camera preset save is in progress
Dial_Call_Type_*_Fb	D	Indicates which call type has been selected for a manually dialed call
Dial_Call_Quality_*_Fb	D	Indicates which call quality has been selected for a manually dialed call
Dial_Call_Select_Number_1/2_Fb	D	Indicates if number 1 or 2 is selected for entry
Dial_Call_Number_1/2$	S	Serial signals containing numbers 1 and 2
Call_Connected	D	Pulses when the unit detects that a call has been connected
Incoming_Call	D	Pulses when the unit detects an incoming call
Line_1-5_Status	A	Shows the status of each of the 5 available lines (if the Poll_Enable input is asserted)
To_Device$	S	Serial signal to be routed to a 2-way RS232 port

TESTING:

OPS USED FOR TESTING:	5.12.63-x.upz
COMPILER USED FOR TESTING:	SimplWindows Version 2.05.17
SAMPLE PROGRAM:	Sony PCS-1 Demo CNMSX

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REVISION HISTORY:	None

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