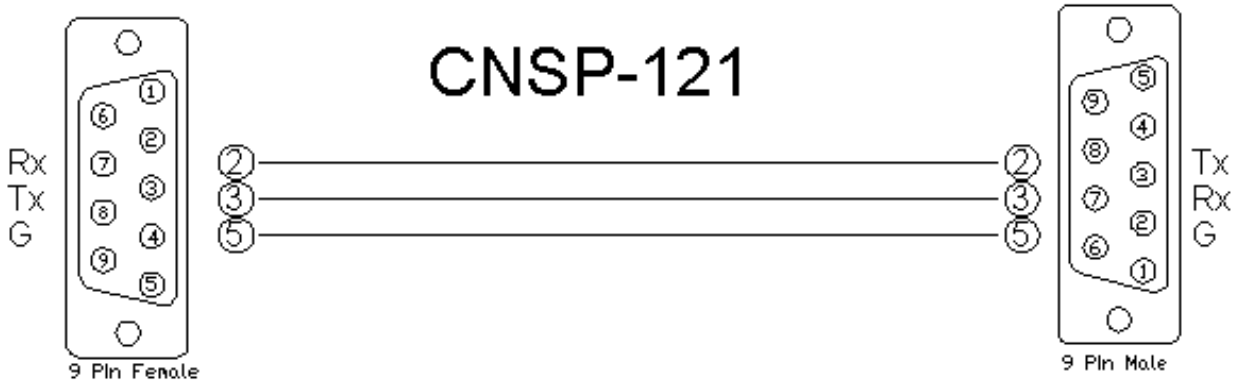
Partner: DSC
Model: PowerSeries
Device Type: Security

GENERAL INFORMATION

SIMPLWINDOWS NAME:	DSC PowerSeries Control v1.0
CATEGORY:	Security
VERSION:	1.0
SUMMARY:	This module provides control and feedback for the DSC PowerSeries security systems.
GENERAL NOTES:	This module provides control for the DSC PowerSeries security systems. It provides control for 8 partitions. It also provides virtual keypad control. True feedback is provided as well. This module was tested with a PC1616 with firmware version v4.22NA The DSC PowerSeries system must have an IT-100 serial interface card installed. To use the virtual keypad portion of the module the virtual keypad must be enabled. To enable the virtual keypad, pulse the Enable_Virtual_Keypad input.
CRESTRON HARDWARE REQUIRED:	C2COM-*, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	V4.22NA
VENDOR SETUP:	To use the Virtual Keypad commands, Virtual Keypad Commands must be enabled. These are enabled by default. They will also be enabled when the Initialize input is pulsed. The connection to the DSC PowerSeries is through the IT-100.
CABLE DIAGRAM:	CNSP-121



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CONTROL:

Virtual_Keypad_Digit_*	D	Press to send a keypad digit press. Release to send a keypad digit release.
Virtual_Keypad_Fire	D	Press and release to send keypad fire button press and release.
Virtual_Keypad_Ambulance	D	Press and release to send keypad ambulance button press and release.
Virtual_Keypad_Panic	D	Press and release to send keypad panic button press and release.
Virtual_Keypad_Function_Key_*	D	Press and release to send function key press and release.
Virtual_Keypad_*_Arrow_Key(s)	D	Press and release to send left, right or both arrow key press and release.
Partition_*_Arm_*	D	Pulse to arm the desired partition in the desired am mode. These commands are sent without a user code. If a user code is required, the Partition_*_Needs_Code_Entry output will be set high. Enter the user code using the Partition_*_Keypad_* inputs. Once the code has been entered, pulse the Partition_*_Keypad_Enter input.
Partition_*_Disarm	D	Pulse to disarm the partition. THIS COMMAND REQUIRES THE USE CODE BE ENTERED FIRST. Use the Partition_*_Keypad_* inputs to enter the user code then pulse the Partition_*_Disarm input.
Partition_*_Keypad_*	D	Pulse to enter the user code. The Partition_*_Keypad_Enter input will send the user code entry command.
Initialize	D	Pulse to get initial status and to enable the virtual keypad commands.
From_Device	S	Serial signal to be routed from a 2-way serial com port.

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FEEDBACK:

Virtual_Keypad_Line_*_Text	S	Serial signals indicating the text for the two lines displayed on the keypad.
Virtual_Keypad_LED_*	D	Digital outputs to indicate the state of the LED lights on the keypads.
Beep/Tone/Buzz_is_On	D	High to indicate that one of the audible keypad tones is on.
Cursor_Style_is_*	D	High to indicate the current cursor style.
Cursor_Line_Number	A	Analog value indicating the current cursor line.
Cursor_Position	A	Analog value indicating the current cursor position on the line.
Partition_*_Armed_*/Disarmed	D	High to indicate the current armed state of the partition.
Partition_*_Ready/Not_Ready/Ready_to_Force_Arm	D	High to indicate the current ready state of the partition.
Partition_*_in_Alarm	D	High to indicate that the partition is in alarm.
Partition_*_Zone_in_Alarm	D	High to indicate that a zone assigned to the partition is in alarm.
Partition_*_Zone_Tamper	D	High to indicate that a zone assigned to the partition is in tamper.
Partition_*_*_Delay	D	High to indicate that an entry or exit delay is active.
Partition_*_Invalid_Access_Code	D	Pulse high to indicate that the user code entered is invalid.
Partition_*_Failed_to_Arm	D	Pulse high to indicate that the partition failed to arm.
Partition_*_User_Opening/Closing	D	High to indicate that the partition was opened or closed by a user.
Partition_*_User_Number_Text	S	Serial signal indicating the user number that performed the last opening or closing for the zone.
Partition_*_Special_Opening/Closing	D	High to indicate that the partition was opened or closed special.
Partition_*_Partial_Closing	D	Pulse high to indicate that the partition was partially closed.
Partition_*_Trouble_LED_On/Off	D	High to indicate the current state of the partition's trouble led.
Partition_*_Needs_Code_Entry	D	High to indicate that the partition needs to have a user code entered.
Partition_*_Code_Text	S	Serial signal indicating the user code being entered as ASCII characters.
Partition_*_Code_Stars_Text	S	Serial signal indicating the user code being entered displayed as stars.

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Zone_*_Status	A	Analog value indicating the current state of each zone. To be routed to the DSC PowerSeries Zone Status v1.0 module. There is one for each of the 64 zones.
System_Error_*	D	High to indicate the last system error message received.
***_Key_Alarm_is_On**	D	High to indicate system key alarms.
Auxiliary_Input_Alarm_is_On	D	High to indicate that the auxiliary input alarm is on.
***_Trouble_is_On**	D	High to indicate system trouble.
Wireless_Key_*_Low_Battery_Trouble_is_On	D	High to indicate a low battery warning for the wireless keys.
Handheld_Keypad_*_Low_Battery_Trouble_is_On	D	High to indicate a low battery warning for the handheld keypad.
To_Device	S	Serial signal to be routed to a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	4.000.0226
SIMPL WINDOWS USED FOR TESTING:	2.10.32
CRES DB USED FOR TESTING:	20.00.013.00
DEVICE DATABASE USED FOR TESTING:	20.01.002.00
SAMPLE PROGRAM:	DSC PowerSeries Control v1.0 Demo
REVISION HISTORY:	V. 1.0 – Original release.

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