GENERAL INFORMATION

SIMPLWINDOWS NAME:	Honeywell Vista 128FBP+250FBP+128BPE+250BPE Keypad All Partitions v4.1
CATEGORY:	Security
VERSION:	4.1
SUMMARY:	This module emulates Honeywell Keypads for 8 partitions.
GENERAL NOTES:	This module will work with the Honeywell Vista security system. It allows the Crestron system to act like Honeywell keypads. This macro also provides feedback including the two lines of text. This module has an input called To_Queue$. The To_Device$ outputs of all other Honeywell modules must be connected to this input. This module will update the text outputs only when the text received from the Honeywell changes. If the text received from the Honeywell is the same as the previous text, the outputs will not update. There is an input called Refresh. Pulsing this input will cause the text outputs to update even if the text is the same.
CRESTRON HARDWARE REQUIRED:	C2I-COM, C2-COM2, C2-COM3
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 1200 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	BPE Rev 4.3
VENDOR SETUP:	The Honeywell system must have the 4100SM RS232 Interface card or the VA8201 Alpha Pager Module installed. The card or module must then be enabled. For both the 4100SM and the VA8201 1) In *05, enter a 1. 2) In *14, enter a 1. You will not be able to use a serial printer. 3) In 1*73, enter a 0. 4) In 1*78, enter a 1. 5) In 1*79, enter the following: 111010 6) In 3*19, enter a 1. For the VA8201, you will also need to go to 2*30 and enter a 1.
CABLE DIAGRAM:	CNSP-125

CRESTRON

Partner: Honeywell
Model: Vista 128/250FBP 128/250BPE
Device Type: Security

CERTIFIED
CRESTRON.
Integrated Partner
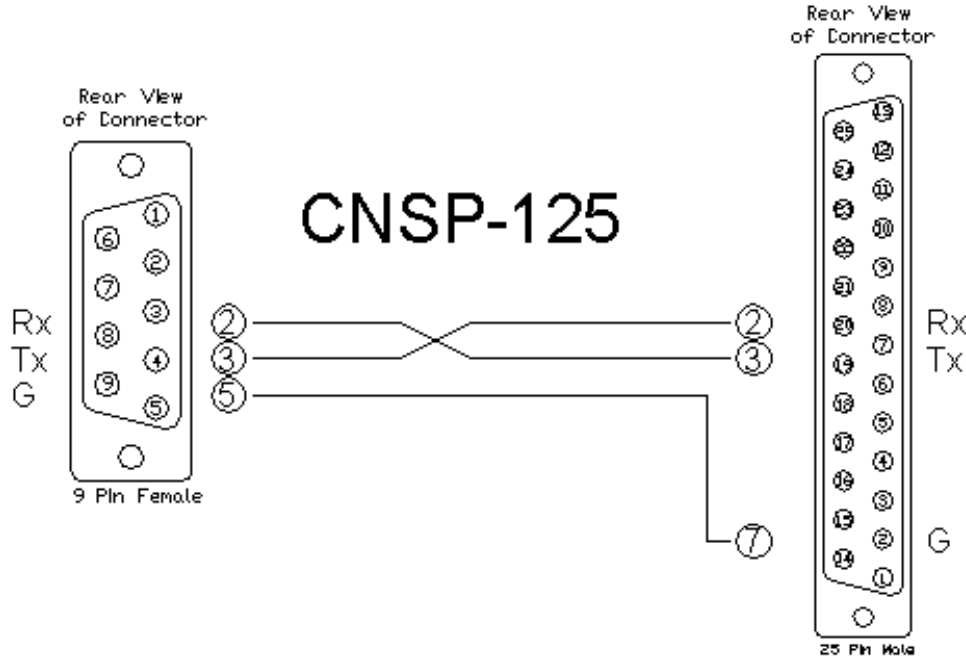
CONTROL:		
Partition_*_Keypad_*	D	Pulse to use the keypad keys for the desired partition.
Initialize	D	Pulse to get intial keypad text.
Refresh	D	Pulse to cause the text outputs to update.
Poll_Partition_*	D	Hold high to poll for keypad text for the desired partition(s).
To_Queue$	S	Serial signal to be routed from the To_Device$ outputs of all other Honeywell modules. This is only required when using the keypad emulation portion of this module.
From_Device$	S	Serial signal to be routed from a 2-way serial com port.

FEEDBACK:

Partition_*_Text_Line_*$	S	Serial signal with the text as it appears on the keypad for the partition.
Partition_*_*_LED_Fb	D	High to indicate that the LEDs are on for the partition.
Partition_*_Back_Light_Fb	D	High to indicate that the keypad's backlight is on.
Partition_*_Back_Light_Mode	A	Analog value to be used for multi-mode text displays. Value 0 = backlight off, 1 = backlight on.
To_Device$	S	Serial signal to be routed to a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	4.0001.1012
SIMPL WINDOWS USED FOR TESTING:	4.03.20
CRESTRON DB USED FOR TESTING:	54.05.005.00
DEVICE DB USED FOR TESTING:	73.00.001.00
SAMPLE PROGRAM:	Honeywell Vista 128FBP + 250FBP + 128BPE + 250BPE v4.1 Demo
REVISION HISTORY:	V. 2.0 – added new commands included in the version-3 protocol from Honeywell. V. 2.4 – Fixed timing on the keypad emulation module. Also fixed an issue with the character case for some commands. Renamed To_Device$ outputs. V. 3.0 – Added code to poll for the keypad text when the Vista tells us that the text has changed. V. 3.1 – Fixed an issue with a delimiter in the Zone Decode module. v. 3.1.1 – Fixed an issue where the module would occasionally send a command while it was still receiving data from the Vista. Also addressed changes to the way that keypad text updates are requested. V. 4.0 – Addressed differences in the protocols relating to the way in which the Vista updates the keypad text. Added three additional keypress inputs for each keypad. v. 4.1 – Incorporated 3-series best practices in all Simpl+.