

Partner: Honeywell
Model: 4232CBM
Device Type: Security



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Honeywell 4232CBM v1.4
CATEGORY:	Security
VERSION:	1.4
SUMMARY:	This module provides control and feedback for the Honeywell 4232CBM via RS232.
GENERAL NOTES:	<p>This module interfaces with the Honeywell 4232CBM to provide a virtual keypad for the Vista security panels. It also provides real time feedback. The module was tested with the Vista 20P (Firmware 9.1 or higher) security panel but should also work with the following panels:</p> <ul style="list-style-type: none">• Vista 15P (Firmware 9.1 or higher)• Vista 15PSIA (Firmware 9.1 or higher)• Vista 20PSIA (Firmware 9.1 or higher)• Vista 21P (Firmware 3.13 or higher)• Vista 21PSIA (Firmware 3.13 or higher)• Vista 128BPT (All firmware)• Vista 128BPTSIA (All firmware)• Vista 250BPT (Rev. 10.3 or higher)• Vista 32FBPT (All firmware)• Vista 128FPBT (All firmware)• Vista 250FBPT (All firmware) <p>This module provides the same functionality as the Honeywell keypad.</p>
CRESTRON HARDWARE REQUIRED:	C2I-COM, ST-COM, C2-COM-*, C2I-*3-COM*
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 115200 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	Firmware version varies with the panel model. See general notes for the required Honeywell firmware version for your panel.
VENDOR SETUP:	<p>For the Vista-128BPT, Vista-128BPTSIA, Vista-32FBPT, Vista-128FBPT, Vista-250FBPT, Vista-250BPT, and the FA1660CT:</p> <ol style="list-style-type: none">1) Put the keypad into Installer mode. Consult the Vista manual for instructions on how to do this.2) Enter #93 to enter Menu Mode.3) Press 0 until you see DEVICE PROG on the screen. At this point, press 1 to Device Programming4) On the screen that says DEVICE ADDRESS, enter 25* to program address 25. Then enter 12 to set the device type to RIS. Then press * to return to the DEVICE ADDRESS screen.5) Enter 05* to program address 5. Enter 01 followed by * to set it to Alpha Console.

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- 6) Enter 1* on the next screen to assign it to Partition 1.
- 7) Keep pressing * until you see 'AUI?' At this screen, enter 1, then press * to get back to the DEVICE ADDRESS screen.
- 8) Enter 06* to program address 6. Enter 01 followed by * to set it to Alpha Console.
- 9) Enter 1* on the next screen to assign it to Partition 1.
- 10) Keep pressing * until you see 'AUI?' At this screen, enter 1, then press * to get back to the DEVICE ADDRESS screen.
- 11) Type 00*, then 1 to exit the DEVICE ADDRESS screen. Then enter *99 to exit programming mode. After the system resets, it should be ready for use with Crestron.

For the Vista-15P, Vista-15PSIA, Vista-20P, Vista-20PSIA, Vista-21iP, and Vista-21iPSIA:

- 1) Put the keypad into Installer mode. Consult the Vista manual for instructions on how to do this.
- 2) Enter #91 to get to the Options menu. The first number that is displayed will need to be noted and used in the next step.
- 3) Enter *91 to access the Options Selection menu. Enter the number noted in Step 2, followed by a 2 to enable call waiting or 3 to disable call waiting. Note that the call waiting selection will only have an effect on systems with an SIA in the model number, but it must still be entered on all systems.
- 4) Enter #190 to view Keypad address 17 options. Note down the second number that appears on the keypad for use in the next step.
- 5) Enter *190 to access the Set Keypad Address 17 Options. Enter 5 to enable this keypad for partition 1, followed by the number noted in Step 4.
- 6) Enter #189 to view the Keypad address 16 options. Note down the second, third, and fourth number that appear on the keypad for use in the next step.
- 7) Enter *189 to access the Set Keypad Address 16 Options. Enter 5 to enable this keypad for partition 1, followed by the three numbers noted in Step 6.
- 8) Enter *99 to exit programming mode. After the system resets, it should be ready for use with Crestron.

CABLE DIAGRAM:

2-Series and 3-Series DB9:
Crestron 4232CBM
Pin 2 TX
Pin 3 RX
Pin 5 GND

3-Series Phoenix:
Crestron 4232CBM
RX TX
TX RX
G GND

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CONTROL:

Initialize	D	Pulse to start communications.
Key_*	D	Pulse to send key presses to the Honeywell.
From_Device	S	Serial signal to be routed from the rx\$ output of a 2-way serial comport.

PARAMETER:

System Type	P	Select your model number from the dropdown list. Note that the at the time this module was written the list may appear to have selected the incorrect value. It really has selected the model number you selected.
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FEEDBACK:

Back_Light_Is_On	D	High to indicate that the keypad back light is on.
Line_<1/2>_Text	S	Serial signals indicating the two lines of text being displayed on the keypad.
Beep_Volume_<Normal/Maximum>_Level	D	High to indicate the beep volume level.
No_Beep	D	High to indicate that the keypad is not beeping.
<One/Two/Three>_Beep(s)	D	High to indicate that the keypad should beep one, two or three times with a beep rate of 100MS on/100MS off. On Crestron touch panels that offer audio wave file playback this could drive a wave file.
Continuous_<Fast/Slow>_Beeps	D	High to indicate that the keypad should be beeping continuously with either a fast beep (80MS on/ 80MS off) or a slow beep (500MS on/500MS off). On Crestron touch panels that offer audio wave file playback this could drive a wave file.
Steady_Sound	D	High to indicate that the keypad should be producing a continuous steady sound. On Crestron touch panels that offer audio wave file playback this could drive a wave file.
Beep	D	This output will produce a high and low signal following the above flash rates. On Crestron touch panels that offer audio wave file playback this could drive a wave file.
Armed_<Stay/Instant/Away>	D	High to indicate that the Honeywell system is armed.
Ready	D	High to indicate that the Honeywell system is ready to arm. This is the same as the READY LED on the Honeywell keypad.
Chime	D	High to indicate that the keypad chime is active.

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Bypass	D	High to indicate that the system is in bypass mode.
Fire	D	High to indicate that the alarm is a fire alarm. This will cycle from high to low when the system is in a fire alarm.
Alarm	D	High to indicate that the alarm tone is on. This will cycle from high to low when the system is in alarm (including a fire alarm).
Trouble_Check	D	High to indicate that there is trouble with the system.
High_Volume_<Fire/Alarm>_Sound	D	High to indicate that the high volume fire or alarm tone is ringing.
AC_Power	D	High to indicate that AC power is applied to the system.
Armed	D	High to indicate that the system is armed. This is an OR gate of the Armed_<Stay/Instant/Away> outputs. This is the same as the ARMED LED on the Honeywell keypad.
To_Device	S	Serial signal to be routed to the tx\$ input of a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	PRO3: 1.011.0023
SIMPL WINDOWS USED FOR TESTING:	4.03.20
DEVICE DB USED FOR TESTING:	72.00.001.00
CRES DB USED FOR TESTING:	54.05.005.00
SYMBOL LIBRARY USED FOR TESTING:	982
SAMPLE PROGRAM:	Honeywell 4232CBM v1.4 Demo
REVISION HISTORY:	<p>v1.0 – Initial Release</p> <p>v1.1 – Fixed an issue with initialization for some of the panel types. - Unreleased</p> <p>v1.2 – Fixed a buffer overflow issue in the Simpl+. - Unreleased</p> <p>v1.3 – Fixed a timing issue with creating initialization strings.</p> <p>v1.4 – Fixed an issue with parsing the address for use in the commands to send to the Honeywell.</p>