

INSTALLATION AND SETUP GUIDE

About the 4232CBM

The 4232CBM Connected Building Module is intended to provide connection between compatible Honeywell control panels and supported third-party software and hardware products. It provides an interface between the control panel's ECP bus and external equipment with either RS422 or RS232 interfaces. The connection and configuration of this device is application-specific. Please refer to the documentation for your external equipment for information on which connection method to use, and how to configure the external device to communicate properly with the 4232CBM.

NOTE: The connected building features offered by the 4232CBM are not evaluated by ETL or UL.

Compatible Controls

Control	Firmware Level
VISTA-15P, VISTA-15PSIA VISTA-20P, VISTA-20PSIA	V9.1 or higher
VISTA-21iP, VISTA-21iPSIA	V3.13 or higher
VISTA-128BPT, VISTA-128BPTsIA	All versions

The 4232CBM module connects to the control panel via the panel's ECP terminals, and connects to the external computer or other equipment via either RS422 or RS232 connections, according to the application.

The module is powered via the control panel's ECP +12VDC connection.

Wiring the Module

Refer to the diagram below for connections.

Mounting the Module

Mount the module inside the control panel cabinet using double-sided tape (supplied). Make sure the solder connections on the bottom of the PC board do not touch the cabinet.

LED Indications

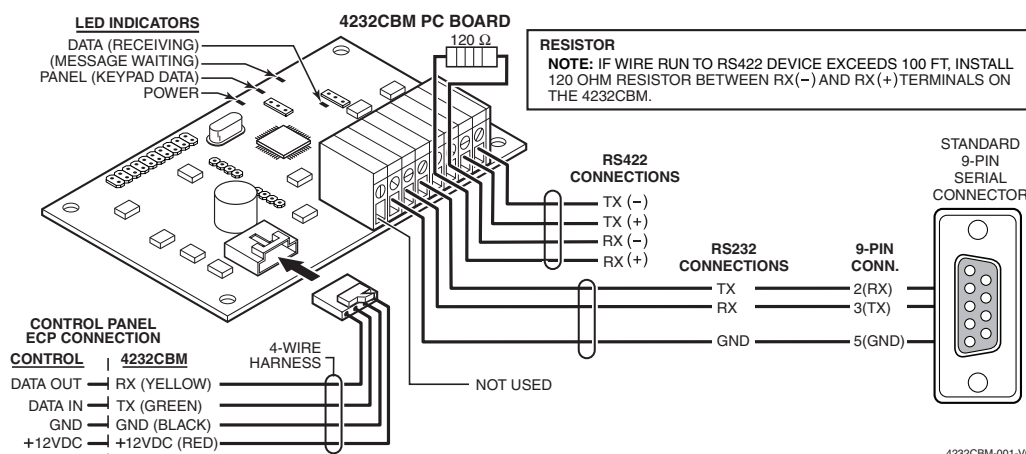
Four green LEDs indicate the following conditions:

LED	Condition	Meaning
external device	On	message waiting for the external device
	Flashing	check connection to the external device
Panel	On or Blink	keypad data waiting for the external device
Power	Slow Blink	power on, normal operation
	Flashing	power on, not configured
	Off	power off
Data	Blink	receiving data from the external device

Specifications

Board Dimensions	3.75" W x 2.5" L x 0.875" D
Current Drain	50mA nominal; 75mA max
ECP Input Voltage	8-14VDC
Wire Run Length	RS232 Connection: 50 ft max with 24 AWG twisted pair wire RS422 Connection: 1000 ft max with 24 AWG twisted pair wire ECP Connection: 900 ft max home run with 22 AWG unshielded wire
Temperature	32°F (0°C) to 140°F (60°C)

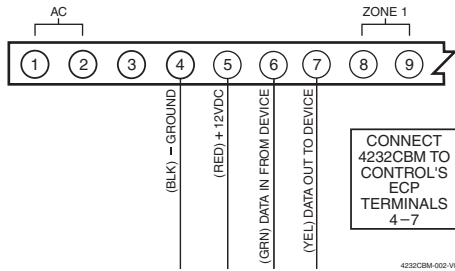
- 4232CBM to External Equipment Connection:** For RS232 applications, connect the three RS232 lines (GND, Tx and Rx) to the external equipment. For RS422 applications, connect the four RS422 lines (Tx+/- and Rx +/-) to the appropriate points on the external equipment.



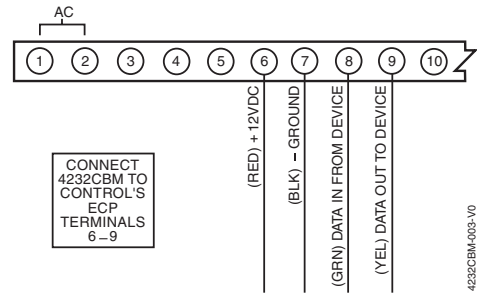
NOTES:

- The connections shown above are used for most applications where the external equipment has a male DE-9 connector (for example, PCs and most home automation equipment).
- For RS422 applications, refer to the documentation for your external equipment.

2. **4232CBM to Control Panel Connection:** Plug the connector of the 4-wire harness (supplied) into the 4-pin ECP connector on the 4232CBM board. Connect the flying leads to the appropriate control panel ECP terminals as shown below.



VISTA Residential Series Controls ECP Connection
(ex. VISTA-15P, VISTA-20P, VISTA-21iP)



VISTA Commercial Series Controls ECP Connection
(ex. VISTA-128BPT, VISTA-128BPTSIA)

Programming to Enable the Module

The 4232CBM uses up to three ECP device addresses; one address for the RIS (Remote Interactive Service) device and either one or two emulated keypad addresses, depending on the application.

Refer to the documentation for your external equipment to determine if you also need to enable one or more keypad addresses. These addresses should be enabled as AUI devices.

To enable RIS functionality in the control panel, follow these programming steps:

Control	Programming Notes for Enabling Remote Interactive Service (RIS)
VISTA-15P VISTA-15PSIA VISTA-20P VISTA-20PSIA VISTA-21iP VISTA-21iPSIA	<ul style="list-style-type: none"> Field *91 Option Selection Enable RIS by programming data field *91 Option Selection, entry 2 as follows: *91 Option Selection (SIA Panels: Options/Call Waiting Disable & RIS Enable) <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">X</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">2</div> (x = see control's programming instructions for appropriate values) </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> 1 2 </div> <p>Options RIS Enable (SIA Panels: Call Waiting Disable/RIS Enable)</p> <p>For Entry 2, enter "2" (SIA Panels: enter "2," or enter "3" if Call Waiting Disable also desired).</p> Field *189 Touch Screen Device Enable If the application requires emulation of a graphical keypad, then enable a virtual AUI device address for Remote Services by programming data field *189 Touch Screen Device Enable as follows: *189 AUI Device Enables (for Touchscreen Style Touchpads) <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">X</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">X</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">X</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">X</div> (x = partition number for installed AUI devices) </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> AUI 1 AUI 2 AUI 3 AUI 4 </div> <p>Enable Remote Services by entering 5, 6, or 7 (depending on the partition in which the remote services device is located) in an unused AUI location. (5 = remote services partition 1; 6 = remote serv. partition 2; 7 = remote serv. partition 3) Device Addresses: AUI 1 = addr. 1; AUI 2 = addr. 2; AUI 3 = addr. 5; AUI 4 = addr. 6</p> <p>NOTE: When using the 4232CBM, the selected AUI device address serves as a virtual device used for Remote Services purposes that allows the control to receive status information from the external equipment. Therefore, the selected address cannot be used for an actual AUI Touchscreen.</p>
VISTA-128BPT VISTA-128BPTSIA	<p>In #93 Device Programming, two device addresses must be programmed to enable remote interactive services. Set one of these device addresses to type 12 (RIS), which enables RIS operation. Set the other device address to type 01 (alpha keypad), which enables a virtual keypad that is also needed for RIS operation.</p> <p>Note: The default ECP address for RIS functionality is 25. Although some applications may allow you to change this setting from the external equipment, using the default address is recommended.</p>

REFER TO THE INSTALLATION AND SETUP GUIDE FOR THE CONTROL WITH WHICH THIS DEVICE IS USED FOR WARRANTY INFORMATION AND LIMITATIONS OF THE ENTIRE SYSTEM.

