Symphony/Symphony-i

Advanced User Interface

8132/8132-i/8142/8142-i

Installation and Setup Guide





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General Information

In This Section

- ♦ About Symphony/Symphony-i
- ♦ System Features

About Symphony/Symphony-i

Symphony/Symphony-i is an intuitive, graphical touch-screen interface that combines security and home control. Symphony/Symphony-i can be used for:

- · Quick and easy security system operation
- Control of the home environment, including the heating and air-conditioning system, lights, garage door, etc.
- Internet alarm reporting (this feature is only included with Symphony-i)



The home environment control feature has not been evaluated by UL.

System Features

Security

- Arm System
 - Away
 - Stay
 - Night
- Disarm System
- User Codes Allows authorized user to add or delete codes
- · Bypass Zones

Setup

- Volume
- Contrast
- Diagnostics
- Keypad Emulation

Internet Accessibility

Selections can be customized for each family member. Typical selections include:

- Event Reminders
- Stock Quotes
- Sports Scores
- Weather
- News Services
- E-Mail Message Displays

Mounting and Wiring

In This Section

- Mounting Symphony/Symphony-i
- Wiring Symphony/Symphony-i

Mounting Symphony/Symphony-i

Symphony/Symphony-i should be mounted using the following criteria:

- Symphony/Symphony-i must be mounted **indoors**, and
- Symphony/Symphony-i should be mounted at eye level for easy viewing by the user.

To mount Symphony/Symphony-i, see Figure 1 and complete the following steps:

- 1. Detach the case back by pushing up into the two tabs located at the bottom of Symphony/Symphony-i with the blade of a screwdriver while pulling the case back and case front apart.
- 2. Locate the case back over the mounting surface such that the opening in the case back is aligned with the wire/cable access opening (in the mounting surface) while passing the wires/cable through the opening in the case back.
- 3. Secure the case back to the mounting surface using four screws (supplied).



Prior to attaching the case front to the case back, be sure to wire the Symphony/Symphony-i as described in the "Wiring Symphony/Symphony-i" paragraph in this section.

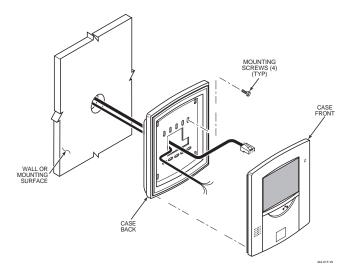


Figure 1. Mounting Symphony/Symphony-i

Wiring Symphony/Symphony-i

Connect Symphony/Symphony-i in parallel with keypads and other peripheral devices using the keypad data (ECP) bus. To wire, see the Summary of Connections diagrams at the back of this guide, or the appropriate Systems Interconnection Diagram provided, and follow the instructions below.



- 1. Symphony/Symphony-i must be used in conjunction with a second keypad that is powered by the control panel.
- 2. Use a Listed Class 2 power supply suited for the application.



- 1. Symphony/Symphony-i is provided with either a 6-position or 9-position header connector. Insert wires from the control panel into the Symphony/Symphony-i header connector and secure by placing the header arms in the down position (9-pin connector shown, see Figure 2). When all wires are secured, mount the header on Symphony/Symphony-i by snapping into place.
- 2. Unshielded 4-conductor cable is recommended for Symphony/Symphony-i power/data wires. A separate twisted pair cable is recommended for audio bus wires.



High Voltage is present in Symphony/Symphony-i. Extreme care should be used when the back cover is removed.

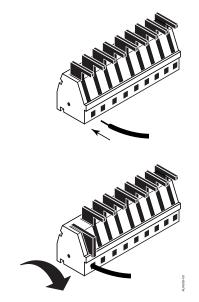


Figure 2. 9-Pin Header Connector

If your unit has a 6-pin connector, connect the wires to the header as follows:

- 1. Connect the + terminal of the supplementary power supply to header position 1 (+12VDC terminal of Symphony/Symphony-i (red wire)).
- 2. Unshielded 4-conductor cable is recommended for Symphony/Symphony-i power/data wires. A separate twisted pair cable is recommended for audio bus wires.
- 3. Connect the AUX terminal of the control panel to the (–) terminal of the supplementary power supply (black wire).

- 4. Connect the (-) terminal of the supplementary power supply to header position 2 (GND terminal of Symphony/Symphony-i (black wire)).
- 5. Connect the Data In terminal of the control panel to header position 3 (Data Out terminal of Symphony/Symphony-i (green wire)).
- 6. Connect Data Out terminal of the control panel to header position 4 (Data In terminal of Symphony/Symphony-i (yellow wire)).
- 7. Connect one end of the Ethernet cable (Category 5) to Symphony/Symphony-i 's RJ45 Ethernet connector and the other end as follows:

If using	Then
broadband (e.g. cable modem, DSL, etc.)	connect to cable/DSL router
narrow band (dial-up modem)	connect to 8950T



You may want to reference cable wiring information for RJ45 cable. For Category 5 cable pin outs, refer to the System Interconnection Diagram supplied.

8. Attach the case front of Symphony/Symphony-i to the case back. Attach the top of Symphony/Symphony-i first, and then press the bottom section inward until it snaps into place securely.

If using a 9-pin connector, connect the wires to the header as follows:

- 1. Connect the (+) terminal of the supplementary power supply to header position 1 (+12VDC terminal of Symphony/Symphony-i (red wire)).
- 2. Connect the (-) terminal of the supplementary power supply and the Gnd terminal of the control panel to header position 3 (Gnd terminal of Symphony/Symphony-i (black wire)).
- 3. Connect the +12V terminal of the control panel to header position 2 (+12VDC terminal of Symphony/Symphony-i (red wire)).
- 4. Connect the Data In terminal of the control panel to header position 4 (Symphony/Symphony-i Data Out terminal (green wire)).
- 5. Connect the Data Out terminal of the control panel to header position 5 (Symphony/Symphony-i Data In terminal (yellow wire)).
- 6. Connect the 485 Video bus wires (if video is available and will be used) to header positions 8 and 9 (the audio bus terminals of Symphony/Symphony-i).
- 7. Connect one end of the Ethernet cable (Category 5) to Symphony/Symphony-i 's RJ45 Ethernet connector and the other end as follows:

If using	Then
broadband (e.g. cable modem, DSL, etc.)	connect to cable/DSL router
narrow band (dial-up modem)	connect to 8950T



You may want to reference cable wiring information for RJ45 cable. For Category 5 cable pin outs, refer to the System Interconnection Diagram supplied.

8. Attach the case front of Symphony/Symphony-i to the case back. Attach the top of Symphony/Symphony-i first, and then press the bottom section inward until it snaps into place securely.

Phone Line Connections

Use a standard RJ31X phone jack (CA38A in Canada) and direct-connect cord, and wire as shown in the System Interconnection Diagram supplied.

Communications Setup

In This Section

- General Information
- Network Architecture
- ♦ Symphony/Symphony-i Connectivity
- Typical Residential Broadband Network Methods
- Cable Modem Technology Primer
- ♦ ADSL (Asynchronous Digital Subscriber Line) Primer

General Information

This section provides an overview of networking techniques and methods commonly used in home and commercial Local Area Networks (LANs). While no single method described here may apply to your specific Symphony/Symphony-i installation, the information should serve as a framework for increasing your general understanding of data network applications.

Network Architecture

This overview describes several typical LAN configurations:

- Cable Modem (DOCSIS)
- ADSL (Advanced Digital Subscriber Line)

Symphony/Symphony-i Connectivity

The Symphony/Symphony-i family connects to any of these network variants in the same manner; via an Ethernet cable (10BaseT), terminating in an RJ45 connector. Although Symphony/Symphony-i provides its own security and does not require a firewall, it is recommended that in most installations, Symphony/Symphony-i be connected through a Firewall/Router device, which will enable the device to be connected to the home network without altering the connections of any other device on the network.

Typical Residential Broadband Network Methods

There are two typical "broadband" (high data rate) networking solutions available to the U.S. residential market: Cable Modem and ADSL. Currently, Cable Modem technology has the largest number of residential subscribers, since ADSL has certain range limitations that do not affect fiber optic/coaxial cable networks. This section provides some background information on the technologies themselves.

Cable Modem Technology Primer

Cable systems were originally designed to deliver broadcast television signals efficiently to subscribers' homes. To ensure that consumers could obtain cable service with the same TV sets they use to receive over-the-air broadcast TV signals, cable operators recreate a portion of the over-the-air radio frequency (RF) spectrum within a sealed coaxial cable line.

Traditional coaxial cable systems typically operate with 330 MHz or 450 MHz of capacity, whereas modern hybrid fiber/coax (HFC) systems are expanded to 750 MHz or more.

Logically, downstream video programming signals begin around 50 MHz, the equivalent of channel 2 for over-the-air television signals. The 5 MHz - 42 MHz portion of the spectrum is usually reserved for upstream communications from subscribers' homes.

Each standard television channel occupies 6 MHz of RF spectrum. Thus a traditional cable system with 400 MHz of downstream bandwidth can carry the equivalent of 60 analog TV channels and a modern HFC system with 700 MHz of downstream bandwidth has the capacity for some 110 channels.

To deliver data services over a cable network, one television channel (in the 50 - 750 MHz range) is typically allocated for downstream traffic to homes and another channel (in the 5 - 42 MHz band) is used to carry upstream signals.

A headend cable modem termination system (CMTS) communicates through these channels with cable modems located in subscriber homes to create a virtual local area network (LAN) connection. Most cable modems are external devices that connect to a personal computer (PC) through a standard 10Base-T Ethernet card or Universal Serial Bus (USB) connection, although internal PCI modem cards are also available.

The cable modem access network operates at Layer 1 (physical) and Layer 2 (media access control/logical link control) of the Open System Interconnect (OSI) Reference Model. Thus, Layer 3 (network) protocols, such as IP traffic, can be seamlessly delivered over the cable modem platform to end users.

A single downstream 6 MHz television channel may support up to 27 Mbps of downstream data throughput from the cable headend using 64 QAM (quadrature amplitude modulation) transmission technology. Speeds can be boosted to 36 Mbps using 256 QAM. Upstream channels may deliver 500 kbps to 10 Mbps from homes using 16QAM or QPSK (quadrature phase shift key) modulation techniques, depending on the amount of spectrum allocated for service. This upstream and downstream bandwidth is shared by the active data subscribers connected to a given cable network segment, typically 500 to 2,000 homes on a modern HFC network.

An individual cable modem subscriber may experience access speeds from 500 kbps to 1.5 Mbps or more (depending on the network architecture and traffic load); blazing performance compared to dial-up alternatives. However, when surfing the Web, performance can be affected by Internet backbone congestion.

In addition to speed, cable modems offer another key benefit: constant connectivity. Because cable modems use connectionless technology, much like in an office LAN, a subscriber's PC is always online with the network. That means there's no need to dial-in to begin a session, so users do not have to worry about receiving busy signals. Additionally, going online does not tie up their telephone line, which (in the case of) is very important in an emergency reporting situation.

ADSL (Asynchronous Digital Subscriber Line) Primer

Asymmetric Digital Subscriber Line (ADSL) is a competing modem technology that converts existing twisted-pair telephone lines into access paths for multimedia and high-speed data communications. ADSL can transmit up to 6 Mbps to a subscriber, and as much as 832 kbps or more in both directions.

An ADSL circuit connects an ADSL modem on each end of a twisted-pair telephone line, creating three information channels -- a high-speed downstream channel, a medium speed duplex channel, depending on the implementation of the ADSL architecture, and a POTS (Plain Old Telephone Service) or an ISDN channel. The POTS/ISDN channel is split off from

the digital modem by filters, thus guaranteeing uninterrupted POTS/ISDN, even if ADSL fails. The high-speed channel ranges from 1.5 to 6.1 Mbps, while duplex rates range from 16 to 832 kbps. Each channel can be sub-multiplexed to form multiple, lower rate channels, depending on the system.

ADSL modems provide data rates consistent with North American and European digital hierarchies and can be purchased with various speed ranges and capabilities. The minimum configuration provides 1.5 or 2.0 Mbps downstream and a 16-kbps duplex channel; others provide rates of 6.1 Mbps and 64 kbps duplex. Products with downstream rates up to 8 Mbps and duplex rates up to 640 kbps are available today. ADSL modems will accommodate ATM transport with variable rates and compensation for ATM overhead, as well as IP protocols.

Downstream data rates depend on a number of factors, including the length of the copper line, its wire gauge, presence of bridged taps, and cross-coupled interference. Line attenuation increases with line length and frequency, and decreases as wire diameter increases.

Symphony/Symphony-i Installation and Setup Guide	

Initial Setup

In This Section

- Initialization
- Setting up an Account Number
- ♦ Symphony/Symphony-i ECP Addressing
- ♦ How to Change the ECP Address
- ♦ How to Select the System Options
- ♦ How to Set the Night Setup Button Function
- ♦ How to Set Network Connectivity

- ♦ How to Setup Network Services
- Symphony/Symphony-i Setup
- How to Adjust the Touch Screen Contrast
- ♦ How to Adjust the Volume
- ♦ How to Select Screen Saver Activation Time
- ♦ How to Set the Time and Date

Initialization

Power Up Symphony/Symphony-i

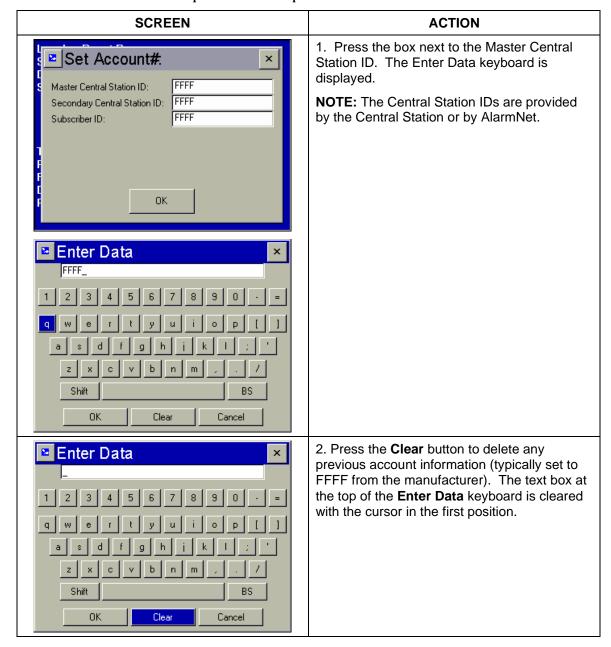
When initially powered, the screen displays the boot sequence as it is performed. After it is determined what services are available, the screen displays the Touch Screen Calibration screen. Calibrate the touch screen as follows:

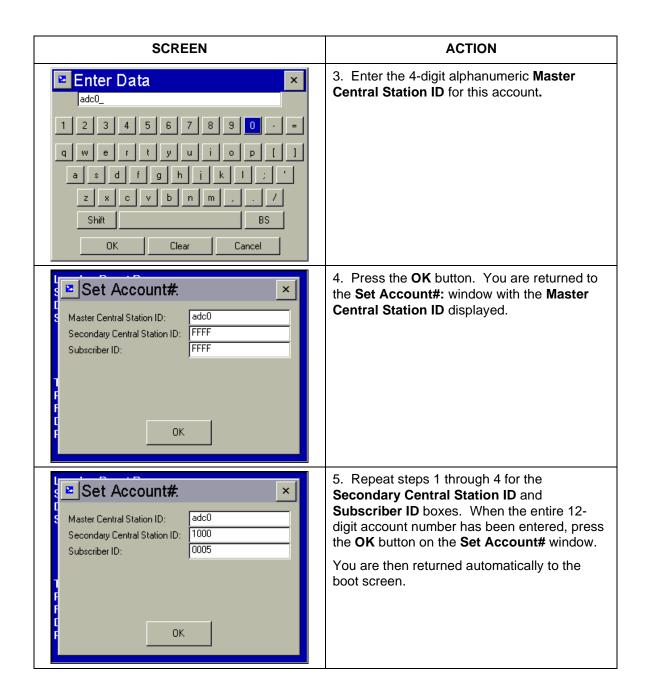
SCREEN	ACTION
	Within the Touch Screen Calibration screen you are asked to "Touch the center of the square displayed in the corner." Press the center of the square.
Touch Screen Calibration Touch the center of the square displayed in the corner.	When this square is touched the Touch Screen Calibration screen displays " Next Point Touch the center of the square ."
	NOTE: If no touch is made within 5 seconds, "No Touch Detected Try Again." is displayed in the center of the Touch Screen Calibration screen.
Touch Screen Calibration	
No Touch Detected Try Again.	

SCREEN	ACTION
Touch Screen Calibration Next Point Touch the center of the square	2. Press the center of the square. The Touch Screen Calibration screen displays "Verifying Calibration Touch the center of the square."
Touch Screen Calibration No Touch Detected Try Again.	NOTE: If no touch is made within 5 seconds, "No Touch Detected Try Again." is displayed in the center of the Touch Screen Calibration screen.
Touch Screen Calibration Verifying Calibration Touch the center of the square	3. Press the center of the square. If touch screen calibration was successful, "CALIBRATION SUCCESSFUL" is displayed momentarily. You are then returned automatically to boot screen.
Touch Screen Calibration CALIBRATION SUCCESSFUL.	If touch screen calibration was not successful, "Calibration Unsuccessful" is displayed momentarily. You are then returned automatically to the first Touch Screen Calibration screen. NOTE: You will progress through the Touch Screen Calibration screens regardless of where you touch. To successfully calibrate the touch screen you must press the center of the box on each screen.

Setting up an Account Number

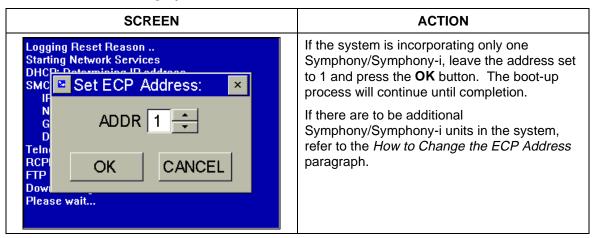
After the touch screen has been calibrated, the boot process will continue until the **Set Account** # window is displayed. This account number is required for Internet content and remote control. It is not required for code update. Set the account number as follows:





Symphony/Symphony-i ECP Addressing

After the Account Number has been set, the boot process will continue until the **Set ECP Address** window is displayed.



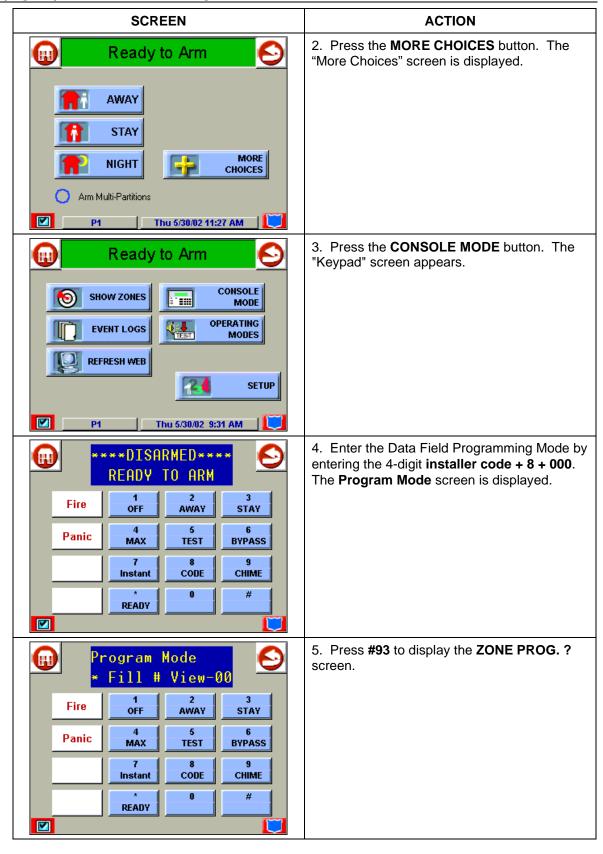
How to Change the ECP Address

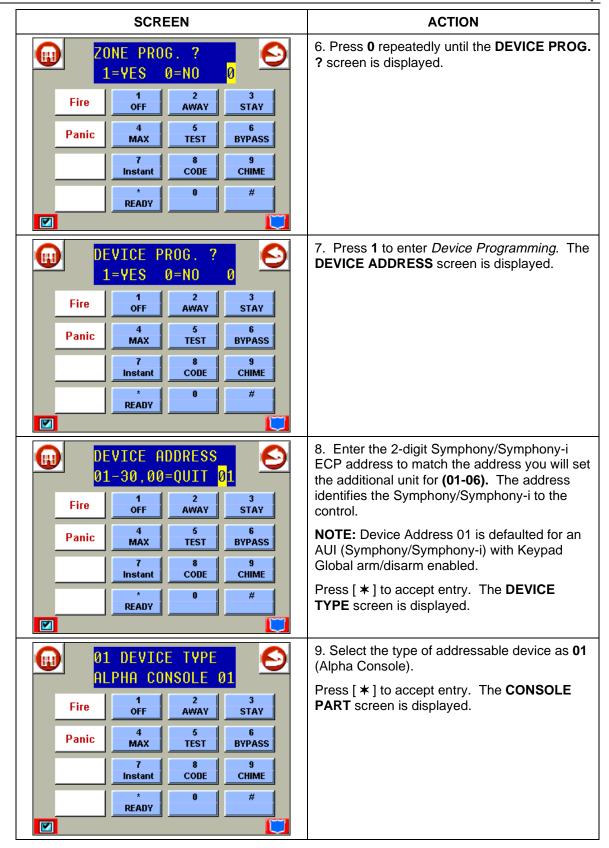
When the system contains two or more Symphony/Symphony-i units, it will be necessary to assign a different ECP address to each unit. **On residential control panels (Vista-20PS or equivalent)**, two units may be used (addresses 1 and 2). These are automatically enabled in the control panel.

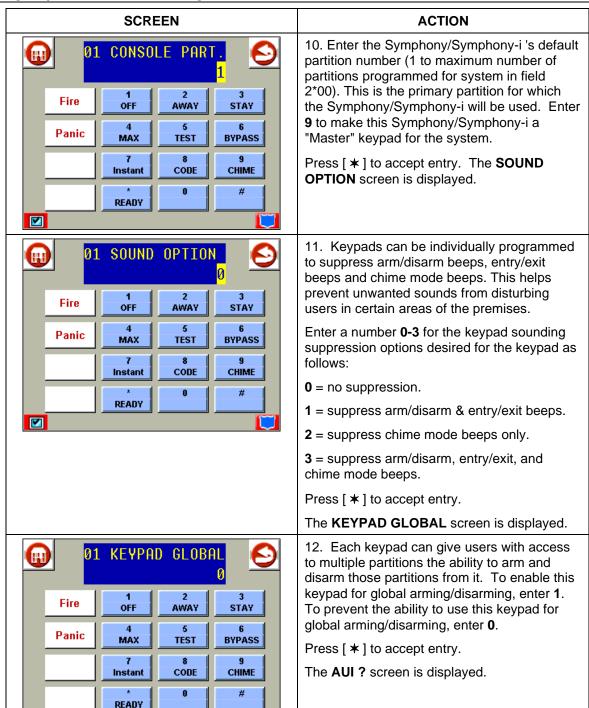
On commercial control panels (Vista-128BP, Vista-128FBP or equivalent), up to six units may be used, (addressed between 1-6). Address 1 is automatically enabled in the control panel. Additional units will be inoperable until each address is enabled in the control panel's "Device Programming" mode. You can enable additional addresses in the control panel using the unit set to address 1.

How to Enable Additional Symphony/Symphony-i Units in Commercial Controls (Vista-128BP, Vista-128FBP or equivalent)

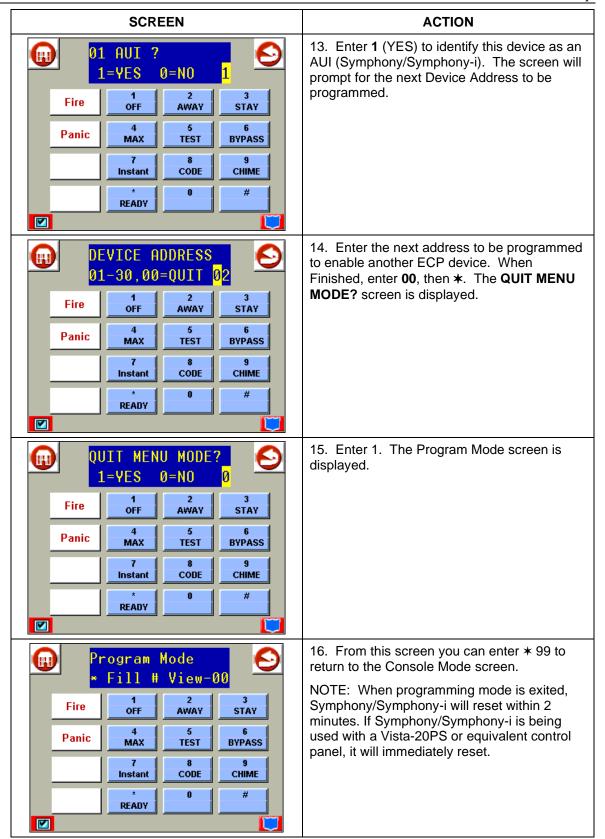








V

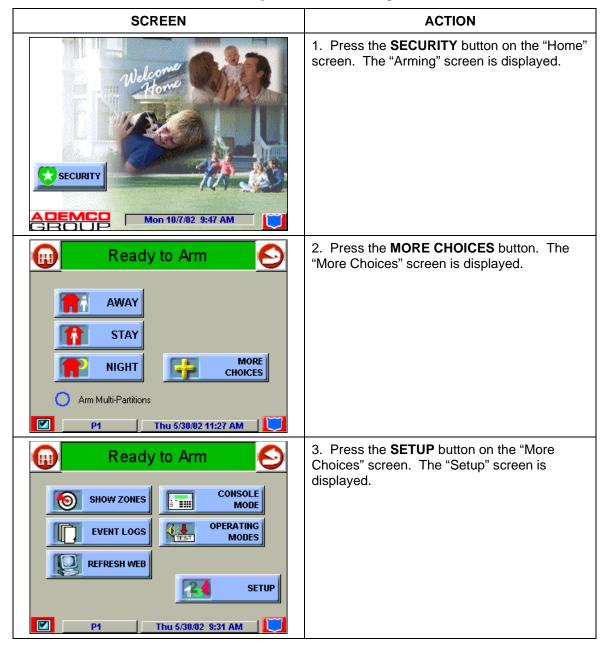


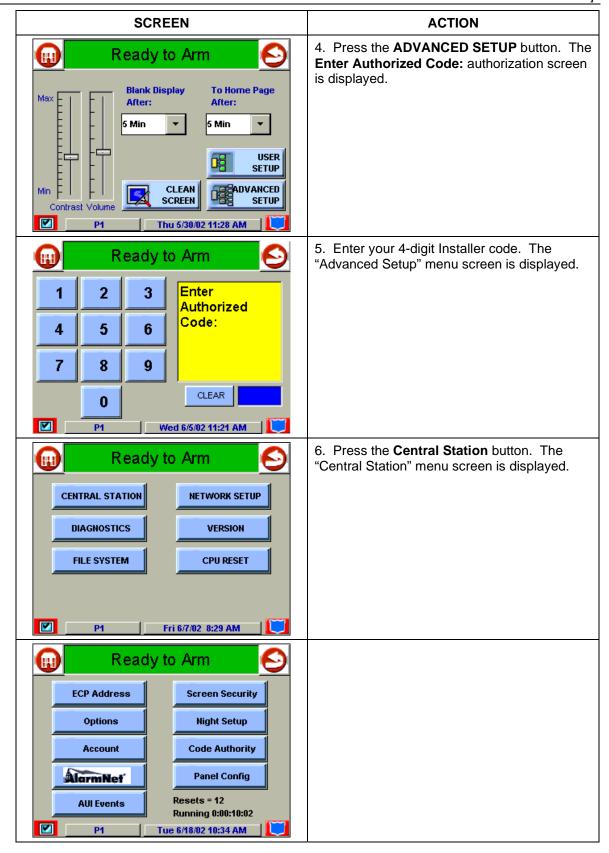
How to Change the Address on Additional Symphony/Symphony-i Units

After enabling additional addresses in the control panel using the Symphony/Symphony-i set to address 1, power up each additional Symphony/Symphony-i one at a time, and set its address to one of the addresses you enabled in the control panel. If this is a first time power-up of the unit, follow the initialization procedure in Section 4. Otherwise, access the Central Station screen, then follow the procedure to change the address on the unit.

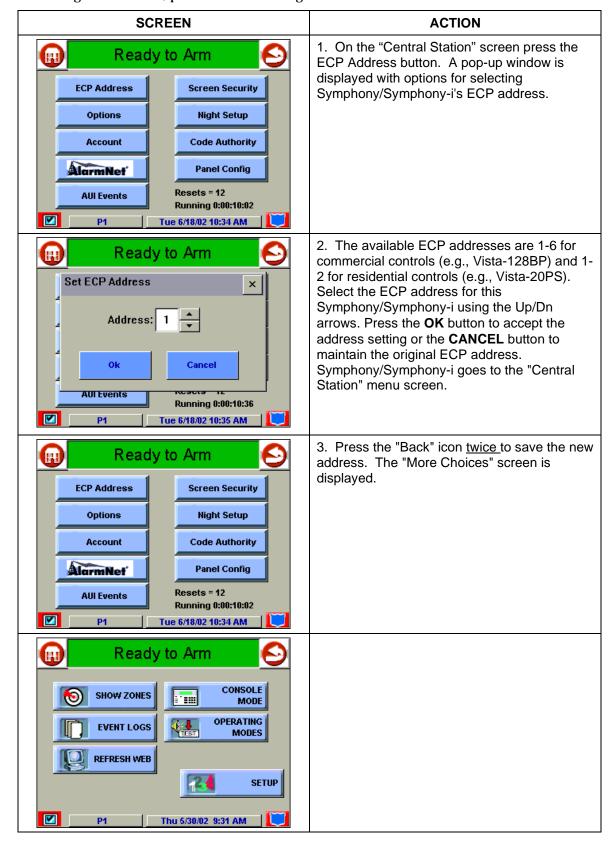
How to Access the Central Station Screen

To Access the "Central Station" screen perform the following:



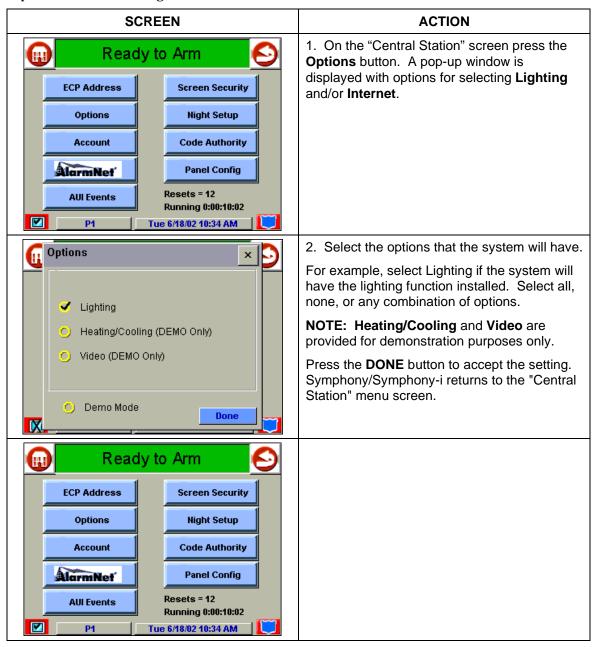


To change the address, perform the following.



How to Select System Options

The system options allow you to place buttons on the "Home" screen. The **SECURITY** button is always displayed and cannot be removed. Buttons that can be added are Lighting, Heating/Cooling (DEMO only), and Video (DEMO only). To avoid confusion to the user, only buttons whose options are functional in the system should be displayed. To select the system options, do the following:

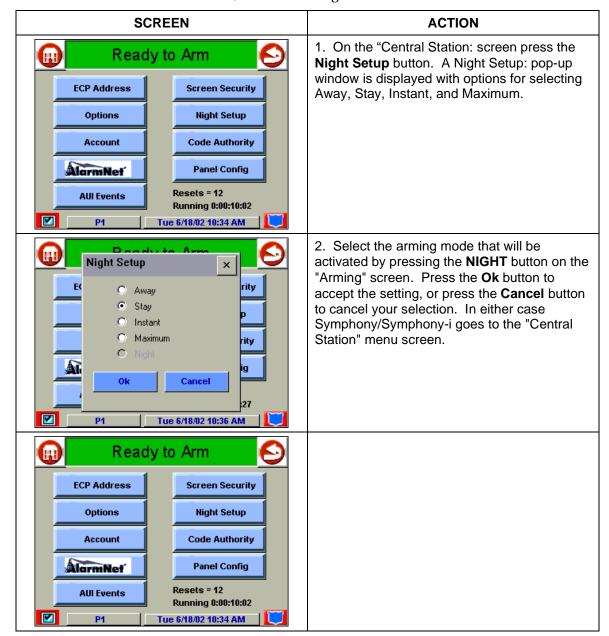


How to Set the NIGHT Setup Button Function

The NIGHT button can be set to arm the system in one of four arming modes:

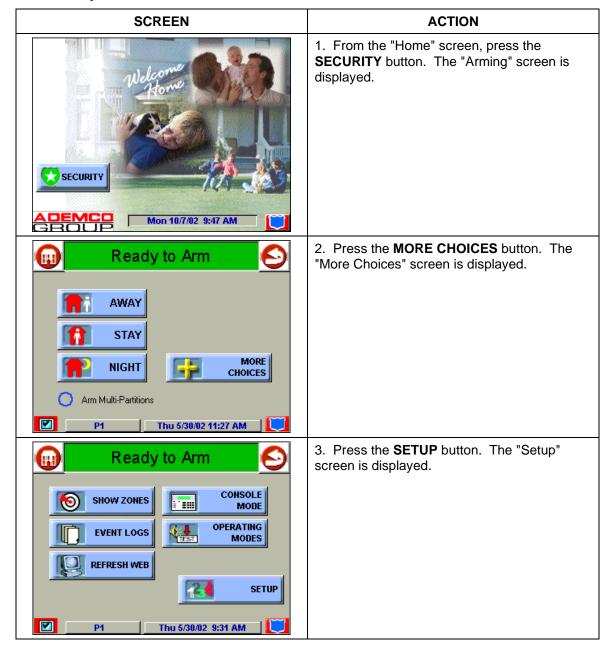
- Away When selected, arms all zones with entry delay.
- Stay When selected, arms perimeter zones with entry delay.
- Instant When selected, arms perimeter zones without entry delay.
- Maximum When selected, arms all zones without entry delay.

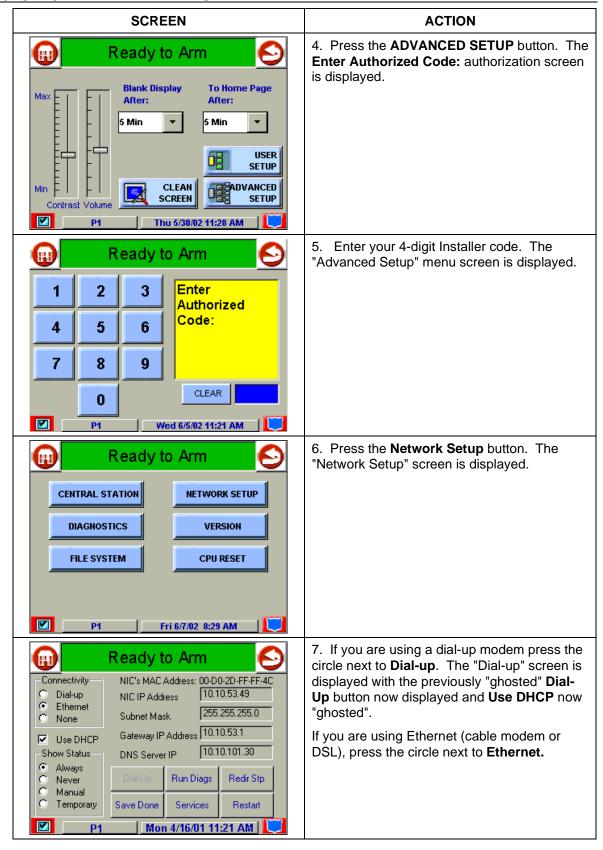
To set the NIGHT button function, do the following:

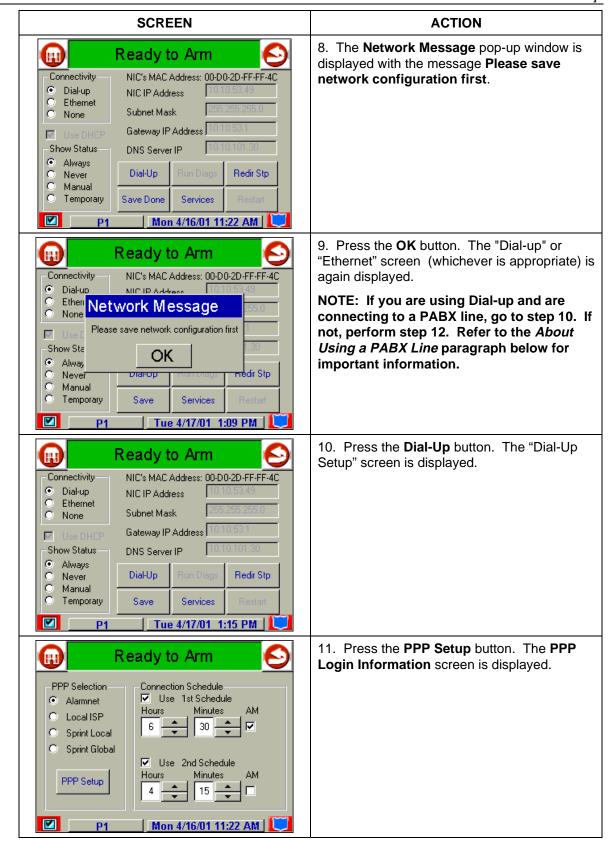


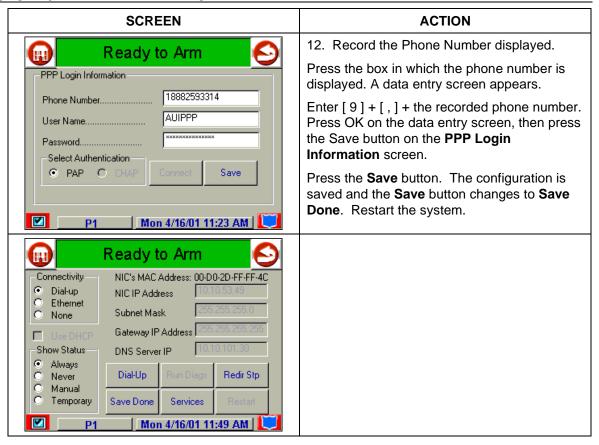
How to Setup Network Connectivity

Depending on your network connection choice, you may or may not need to set the network connectivity. Symphony/Symphony-i is defaulted to the Ethernet connection with DHCP also selected. If you have selected another network connection option, set the network connectivity as follows:



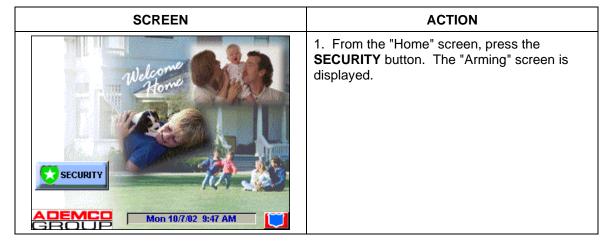


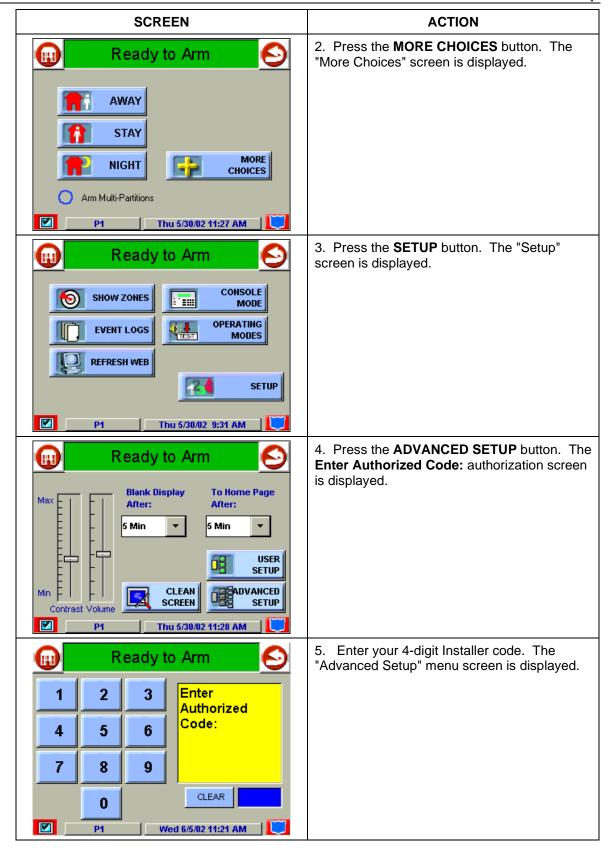


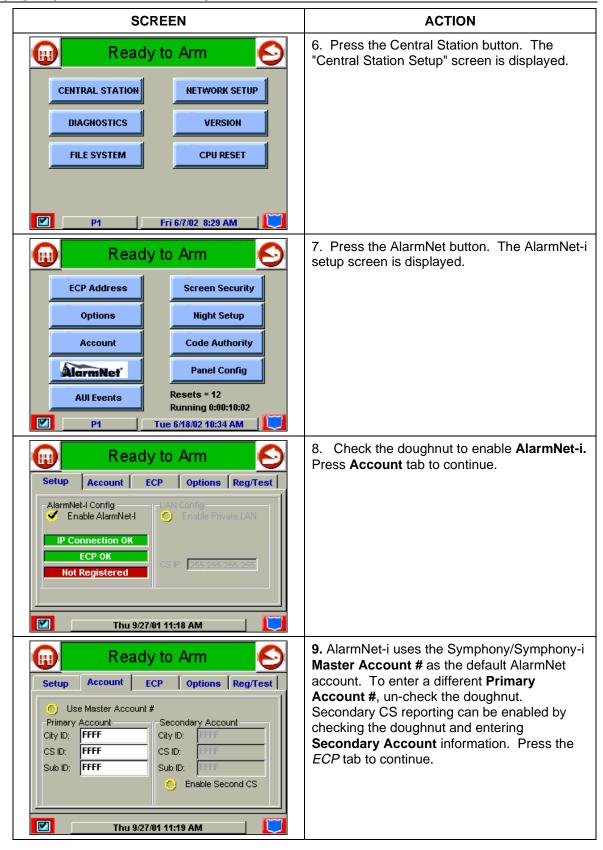


How to Setup AlarmNet-i Connectivity

AlarmNet-i is an available option. Set up Symphony/Symphony-i for AlarmNet-i, following the steps below. Note that the Symphony/Symphony-i connectivity parameter must be set to Ethernet. AlarmNet-i is not supported using dial-up.







SCREEN



ACTION

10. Select the AlarmNet-i ECP Address. Use the same address that was entered during panel programming in the How to Enable *Additional Symphony/Symphony-i Units in Commercial Control* paragraph, step 14 in this Section.

NOTE: The AlarmNet-i address will be different than the Symphony/Symphony-i ECP address. Select Device Reporting Priority as Stand Alone or Secondary. This selection sets the device priority for systems with multiple LRR or AlarmNet-i enabled Symphony's. If the system has no other external communication device, this option should be set to Stand Alone, the default priority.

For duplicate reporting, set the priority to Secondary" As a secondary device it reports the alarms that are sent to the primary device to the central station. If the primary device loses communication with the panel, then neither device can communicate.



For UL installations, dual reporting is required (e.g. Internet with dialer backup).

Press Options tab to continue.



11. Old Alarm Time sets how long an undeliverable alarm is retried for delivery to AlarmNet. If the message is not validated, it is retried until the old alarm time is reached or the message is validated. The choices available are: 10 Min., 15 Min., 30 Min., 1 Hr, 2 Hr, 4Hr, 8Hr, 12Hr, 24Hr.



For UL installations, Old Alarm Time must be set to 10 **Minutes**.

Fault Time Enter in minutes 1 - 99 the time delay before AlarmNet-i notifies the control panel that there is loss of contact with the network.

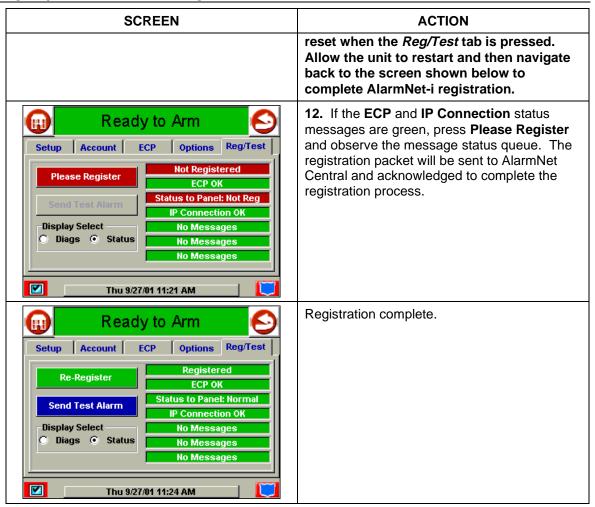


For UL installations, Fault Time must be set to 5 **Minutes**.

Account Supervision AlarmNet-i sends a supervision message multiple times during the supervision period. AlarmNet will transmit a communications failure alarm to the central station if the supervision message is not received within the period.

Press Reg/Test tab to continue.

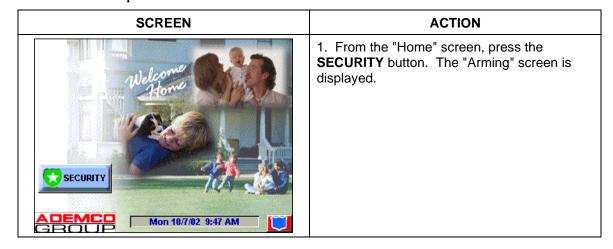
If this is the first time AlarmNet-i has been enabled, the Symphony/Symphony-i will

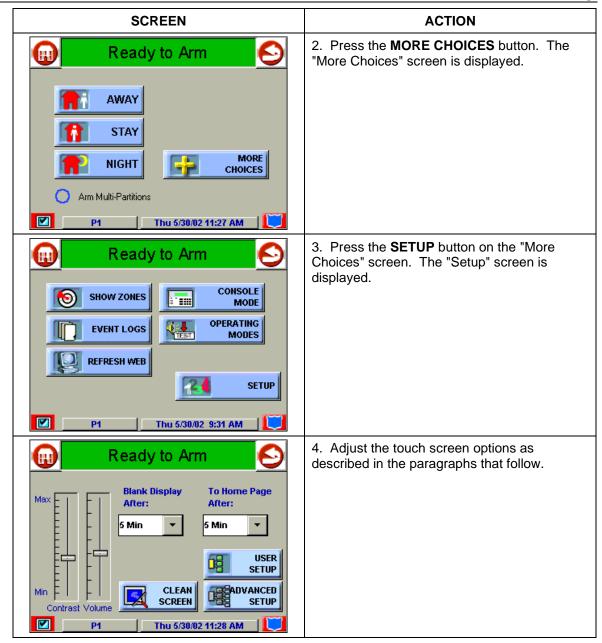


Symphony/Symphony-i Setup

Setup allows you to adjust the touch screen contrast and/or adjust the Symphony/Symphony-i speaker volume. You may also select the time interval that must pass prior to Symphony/Symphony-i going into screen saver mode (screen goes blank). Additionally, you may enter the User Setup screen, Advanced Setup screen, or Clean Screen (maintenance mode) from the "Setup" screen by pressing the corresponding button.

Access the "Setup" screen as follows:

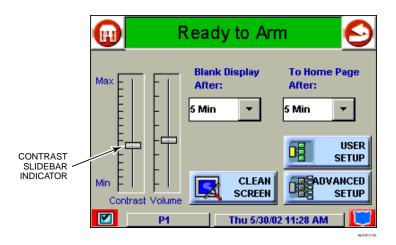




How to Adjust the Touch Screen Contrast

You may adjust the touch screen contrast as follows:

If	Then
you want to increase contrast	press the slide bar above the current contrast setting.
you want to decrease contrast	press the slide bar below the current contrast setting.
another adjustment or selection is to be made	go to the corresponding paragraph in this section.
no additional adjustment or selection is to be made	press the back icon at the upper-right-hand corner of the "Setup" screen to return to the previous screen, or
	press the "home" icon in the upper left-hand corner of the "Setup" screen to return to your home screen.

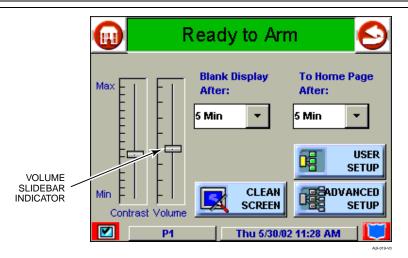


Touch Screen Contrast Control

How to Adjust the Volume

You may adjust the Symphony/Symphony-i speaker volume by pressing your finger on the touch screen slide bar associated with the "Volume" scale and doing the following:

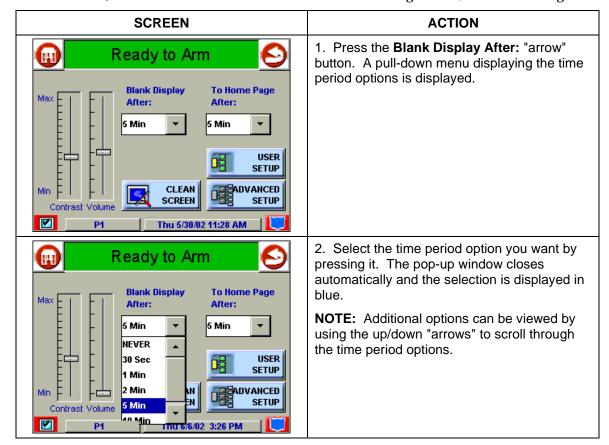
If	Then
you want to increase volume	press the slide bar above the current volume setting.
you want to decrease volume	press the slide bar below the current volume setting.

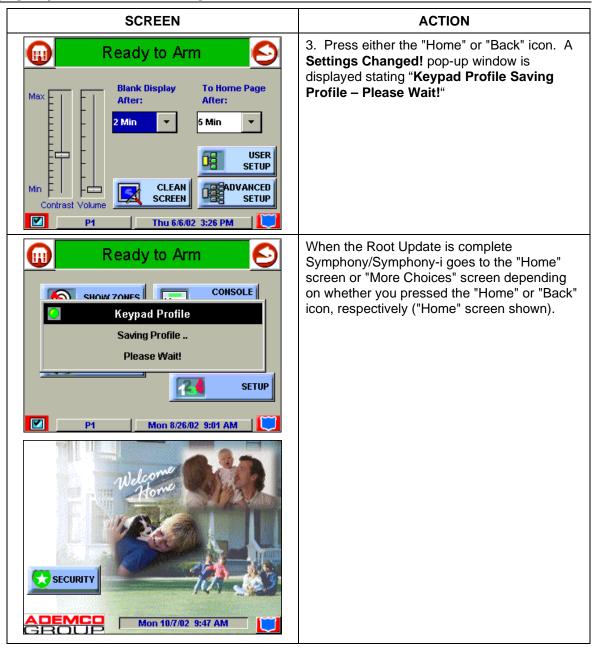


Volume Control

How to Select Screen Saver Activation Time

When Symphony/Symphony-i is not armed and not active, it will automatically go into screen saver mode (display goes blank) after the selected blank display time has expired (unless you select "never"). To select the time after which the screen will go blank, do the following:





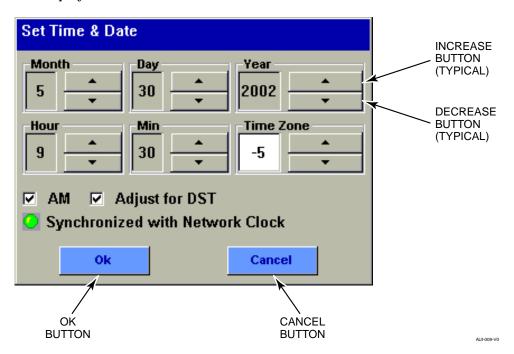
How to Set the Time and Date

You can set the time and date from the **Set Time & Date** screen. Pressing the Time and Date bar located at the bottom of each Symphony/Symphony-i screen displays the **Set Time & Date** screen.

- Since **Sync With Network Clock** is selected on the **Set Time & Date** screen, whenever Symphony/Symphony-i checks in with the server (every 15 seconds if broadband, If dial-up is selected it is whenever Symphony/Symphony-i calls in) it will get the current Greenwich Meridian Time (GMT). If the Symphony/Symphony-i time differs from GMT by 10 seconds or more, the Symphony/Symphony-i time will be reset. Additionally, Symphony/Symphony-i will send the time to the control panel every hour. This 1-hour timer starts on Symphony/Symphony-i power-up.
- If **Adjust for DST** (Daylight Savings Time) is selected, Symphony/Symphony-i will adjust for Daylight Savings time. When selected, the next time the 1-hour timer expires, the new value will be sent to the control panel.

IMPORTANT: This means that the Symphony/Symphony-i setting will override and overwrite the control panel time setting. That is, if the control panel is set to DST and adjusts but Symphony/Symphony-i is not, upon the 1-hour timer expiration, the control panel will be updated to the current time that is not adjusted for DST.

From the **Set Time & Date** screen, adjust either or both the time and date by pressing the increase or decrease arrow buttons as necessary until the proper month, day, year, hour, and minute are displayed.



Set Time & Date Screen

Symphony/Symphony-i Inst	tallation and Setu	up Guide		
4-28				

AlarmNet-i Communications Setup

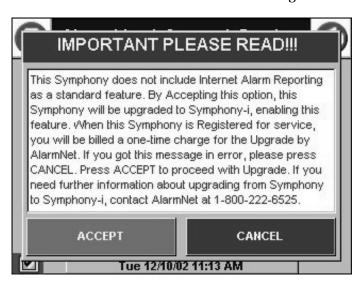
In This Section

- General Information
- AlarmNet-i Menu Mode Programming

General Information

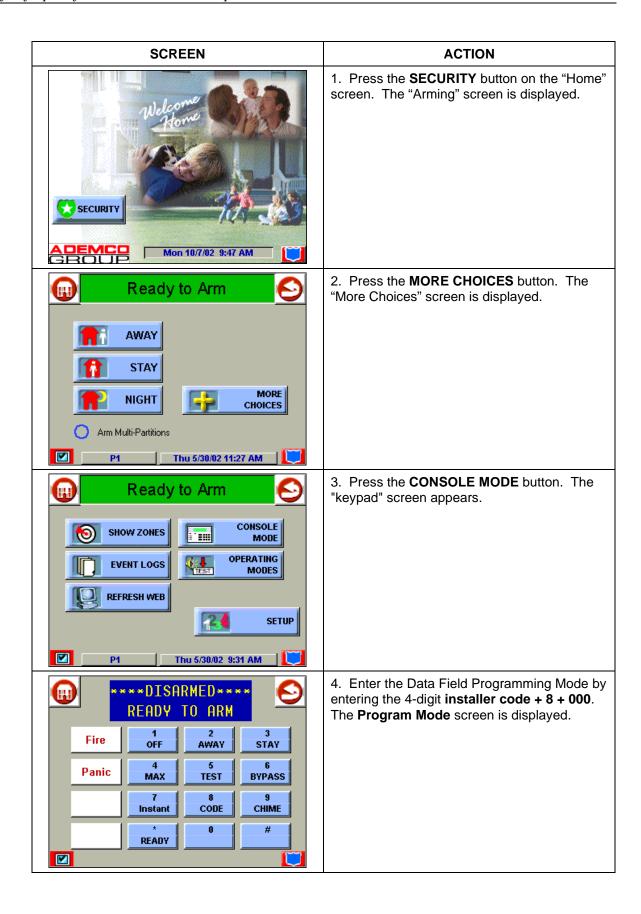
AlarmNet-i is a fully encrypted, secure method of delivering alarm messages to a central station from a protected location, using the Internet. Connected to a control panel via ECP, an AlarmNet-i enabled Symphony/Symphony-i routes status, supervisory, and alarm messages to the AlarmNet Control Center using TCP Internet protocol and 1024-bit encryption. The AlarmNet Control then identifies, validates and forwards the message to the appropriate central station center.

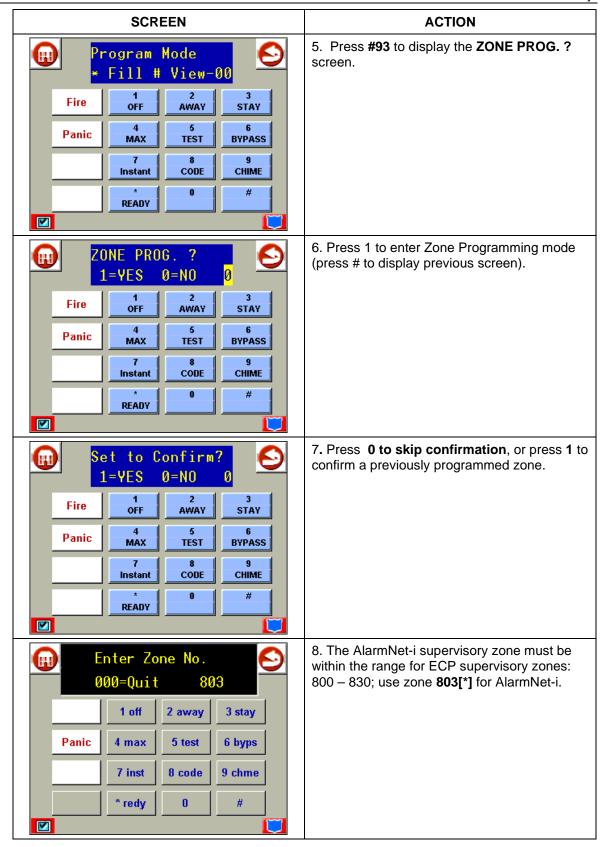
The AlarmNet-i feature is provided automatically with the purchase of a Symphony-i. If a standard Symphony was purchased, it does not come with this feature, but may be upgraded to a Symphony-i by the installer. This will incur an additional charge. To upgrade press the **AlarmNet** button on the "Central Station" screen. The following screen will appear.

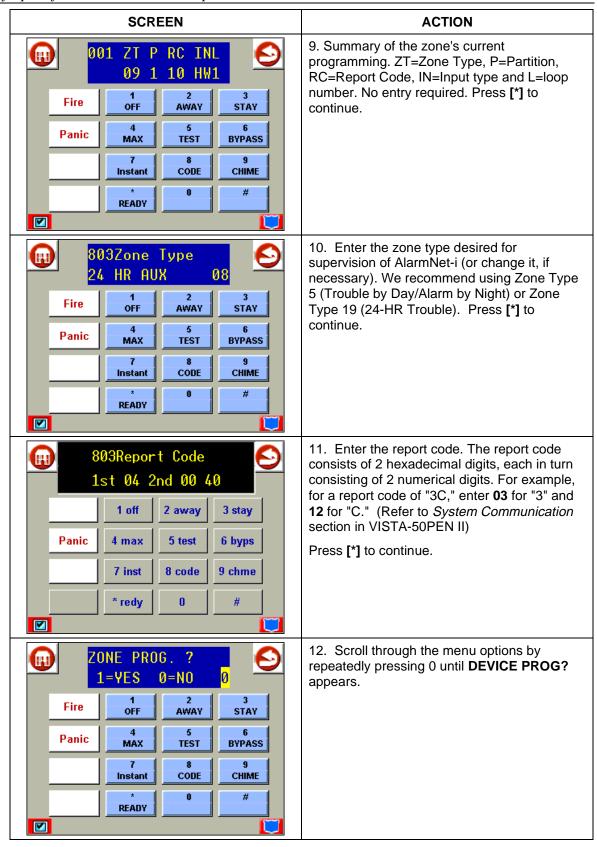


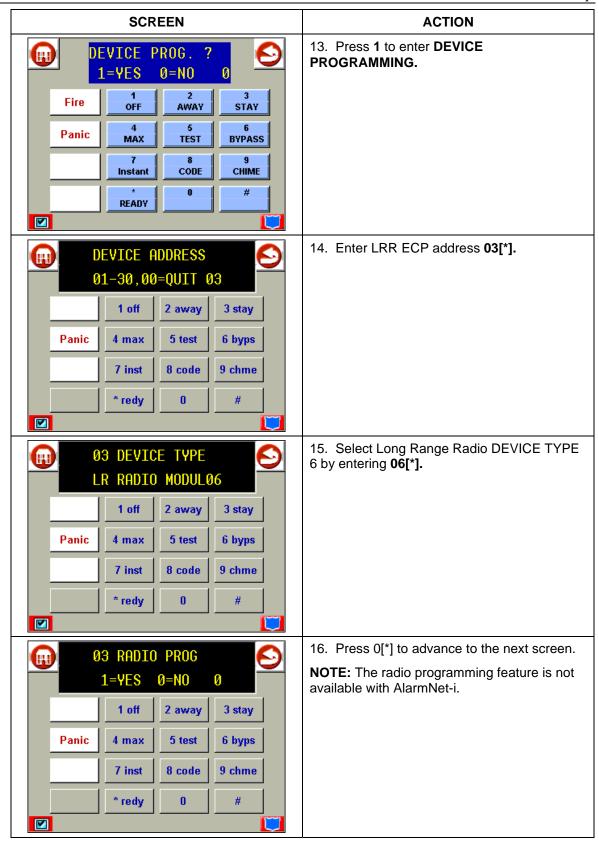
Enabling AlarmNet-i in the Control Panel

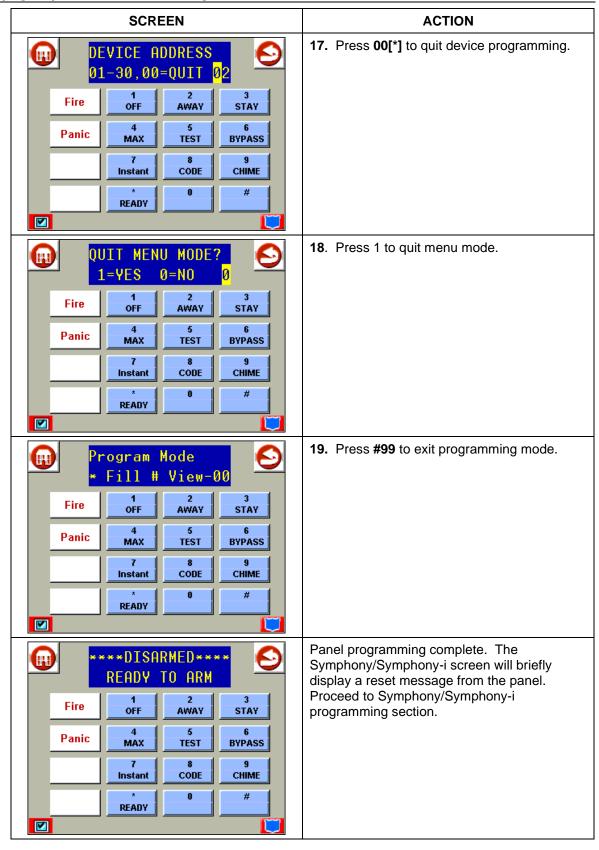
On residential control panels (e.g., VISTA-20PS or equivalent), you must enable LRR in the corresponding programming field (*29). On commercial control panels (e.g., VISTA-128BP, VISTA-128FBP or equivalent) you must enable LRR as follows.











User Codes

In This Section

- ♦ Introduction to User Code Setup
- ♦ How to Access User Setup
- ♦ How to Add a User

Introduction to User Code Setup

Each user must be assigned a name with a corresponding 4-digit user code in order to gain access to various features and functions. Through Symphony/Symphony-i, you may program users to access any and all of the following systems:

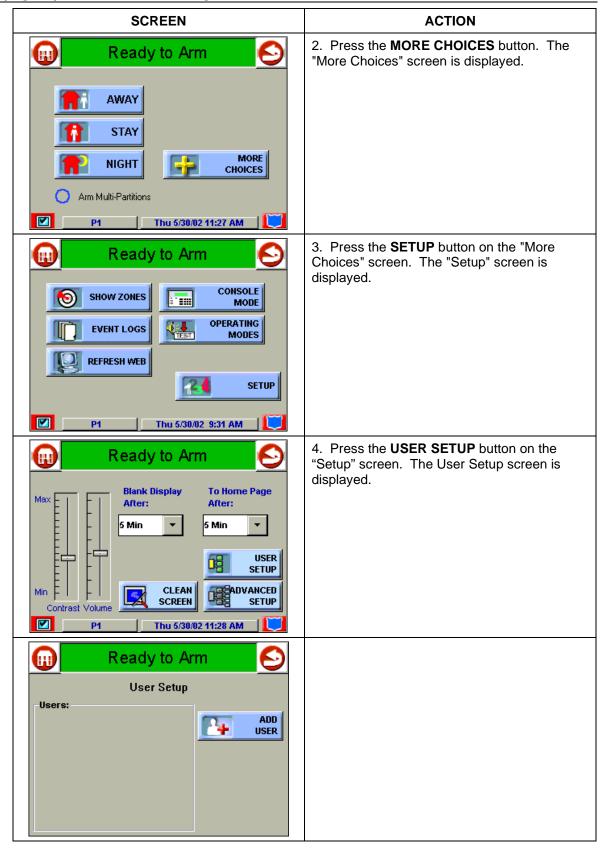
- Fire/Burglary
- Internet

Users for the systems are programmed in a central user setup location that provides the specific questions for the user pertaining to each system. You may want these users to be the same, but there are situations in which you may want a user to have access to one system (e.g., Internet) without having access to another (e.g., the Fire/Burglary system).

How to Access User Setup

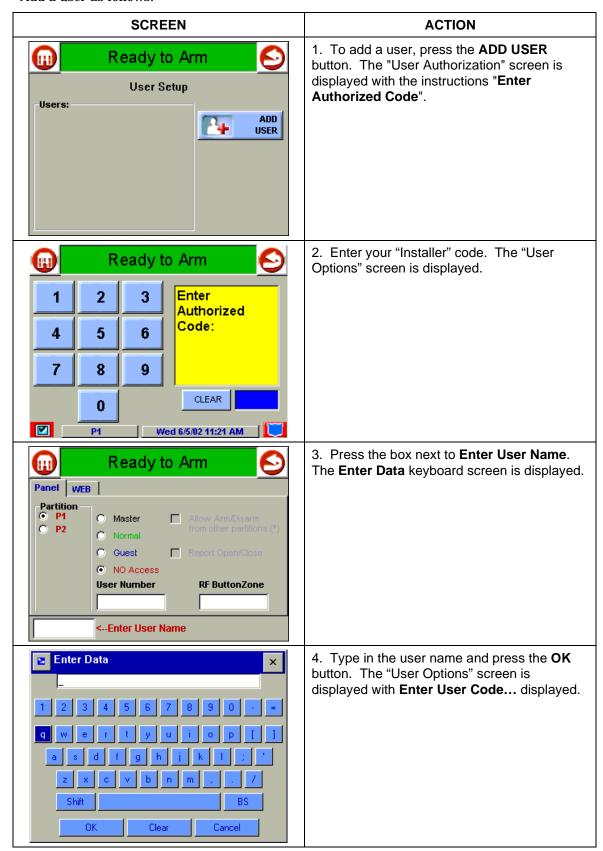
Access User Setup as follows:

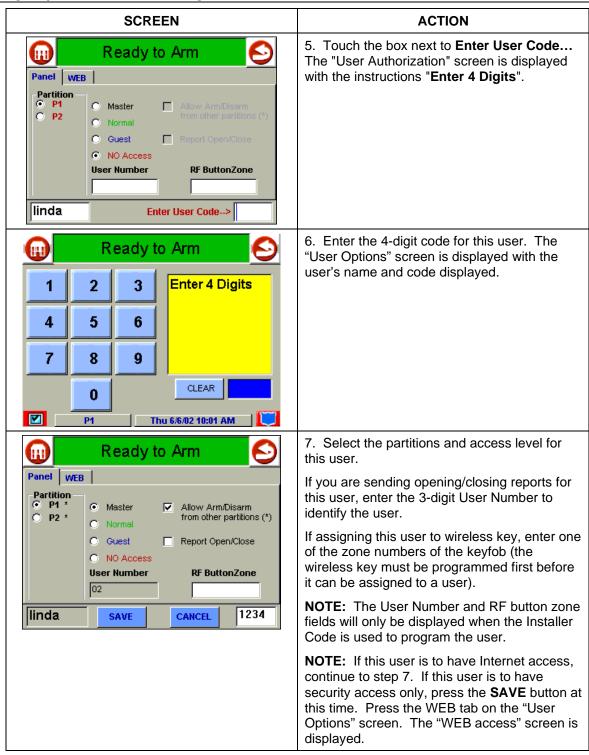
SCREEN	ACTION
SECURITY Mon 10/7/02 9:47 AM	From the "Home" screen, press the SECURITY button. The "Arming" screen is displayed.

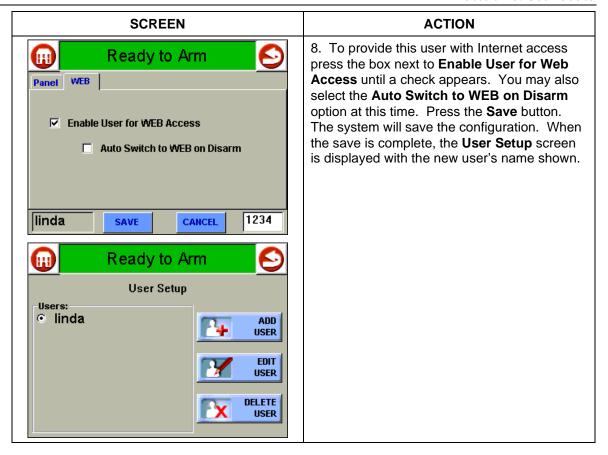


How to Add a User

Add a user as follows:

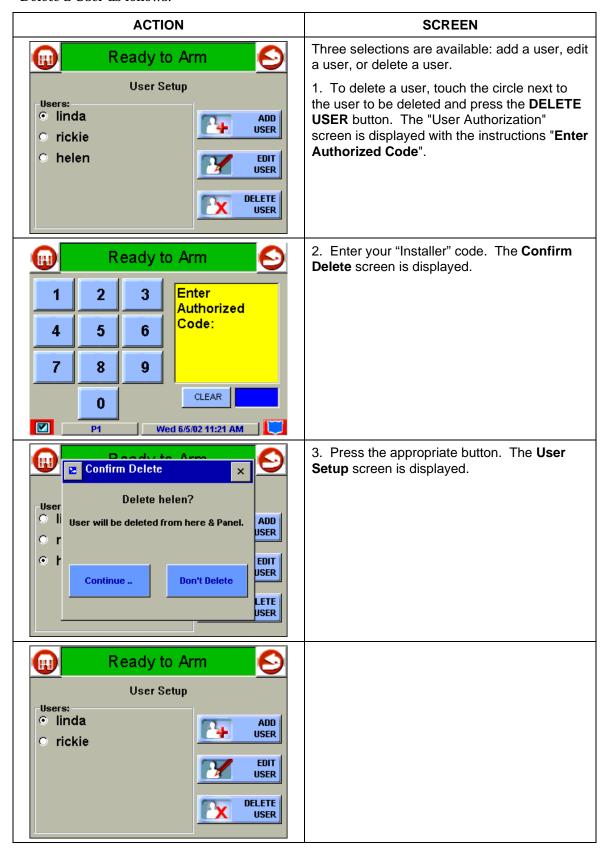






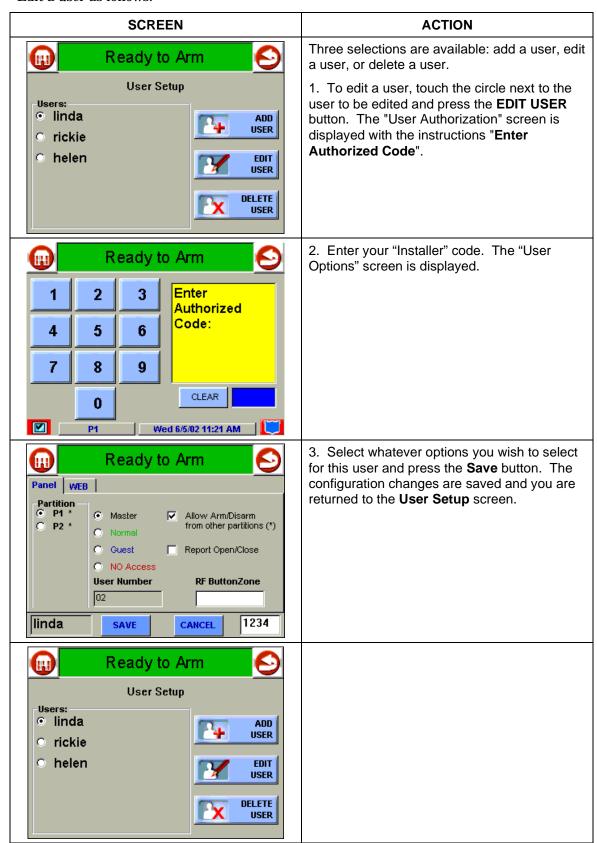
How to Delete a User

Delete a User as follows:



How to Edit a User

Edit a user as follows:



Symphony/Symphony-i Installation and Setup Guide		

Maintenance

In This Section

- About Symphony/Symphony-i Maintenance
- How to Clean Symphony/Symphony-i

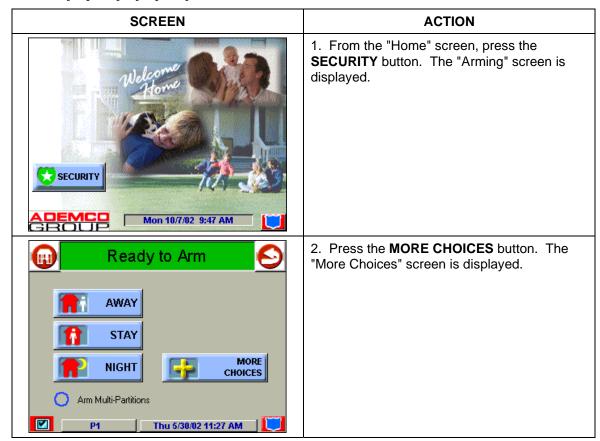
About Symphony/Symphony-i Maintenance

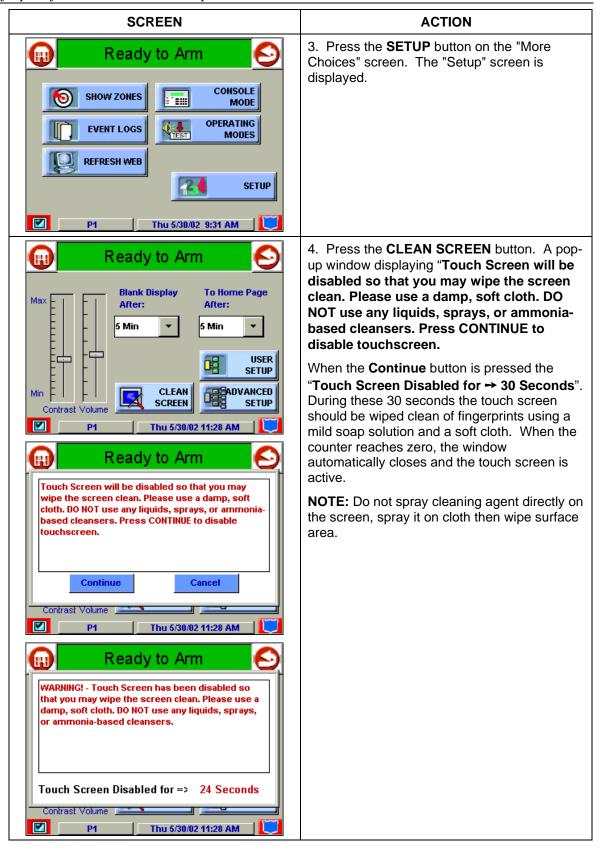
With the exception of normal cleaning, Symphony/Symphony-i is maintenance free.

How to Clean Symphony/Symphony-i

IMPORTANT: Do not use an abrasive cleaning agent or abrasive cloth when cleaning Symphony/Symphony-i or damage to the touch screen may occur.

Clean Symphony/Symphony-i as follows:





Routine Care

- Treat the components of the security system as you would any other electrical equipment. Do not slam sensor-protected doors or windows.
- Keep dust from accumulating on the keypad and all protective sensors, particularly on motion sensors and smoke detectors.
- The keypad and sensors should be cleaned carefully with a dry soft cloth. *Do not spray water or any other fluid on the units.*

Symphony/Symphony-i Installation and Setup Guide		

Troubleshooting

In This Section

♦ Troubleshooting

♦ Symphony/Symphony-i LED Operation

Diagnostics

Troubleshooting

For troubleshooting procedures, refer to the Control Panel Installation Guide.

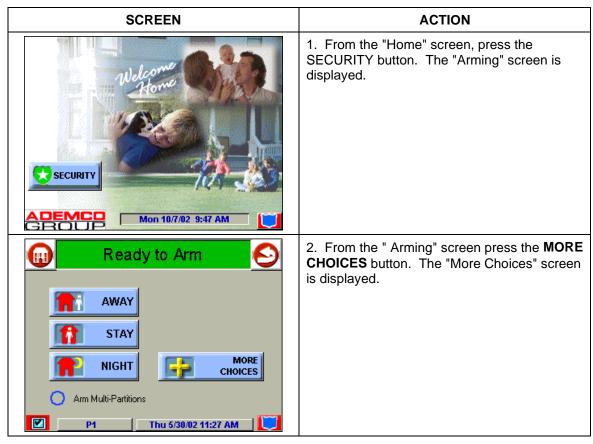
Diagnostics

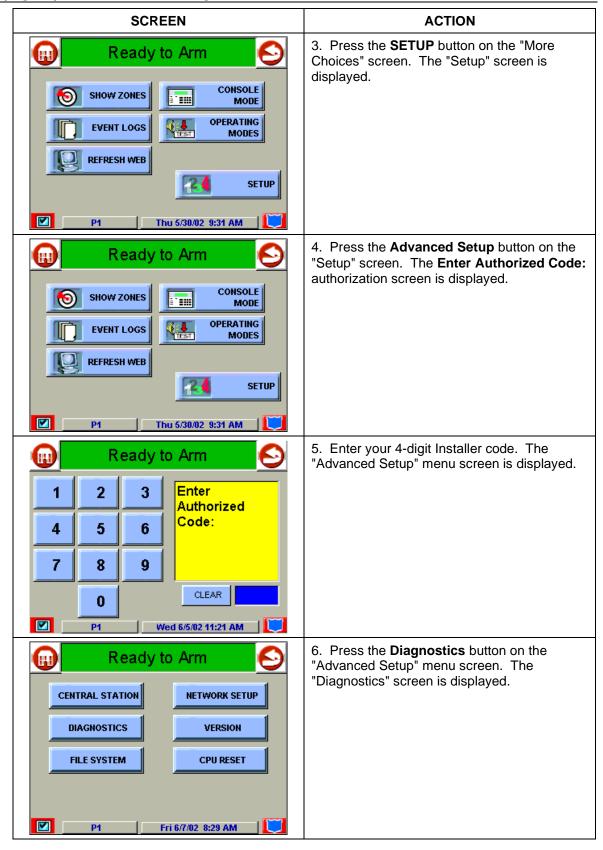
About Diagnostics

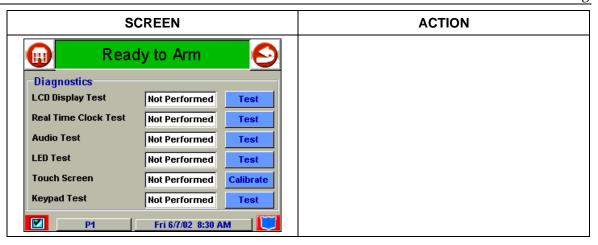
A series of diagnostic and calibration tests is provided that allows verification of correct operation of Symphony/Symphony-i and its connections to the security system and the Internet. There are a total of six diagnostic tests and one calibration procedure.

How to Access the Diagnostics

To access diagnostics, do the following:







Performing Diagnostics

Select any diagnostic test or calibration procedure from the Diagnostics screen by pressing its associated **Test** or **Calibrate** button. All or any individual test may be run when you access the Diagnostics screen; however, each test must be performed one at a time.

At any time when a test is not being performed, you can press:

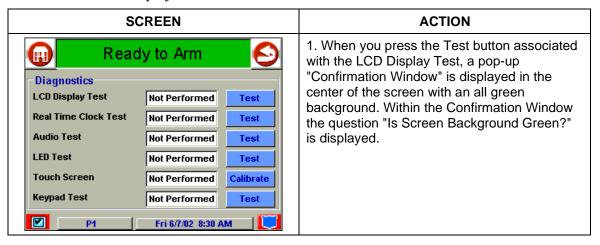
- the back button icon at the upper-right corner of the Diagnostics screen to return to the previous screen, or
- the home button icon in the upper left-hand corner of the Diagnostics screen to return to your home page.

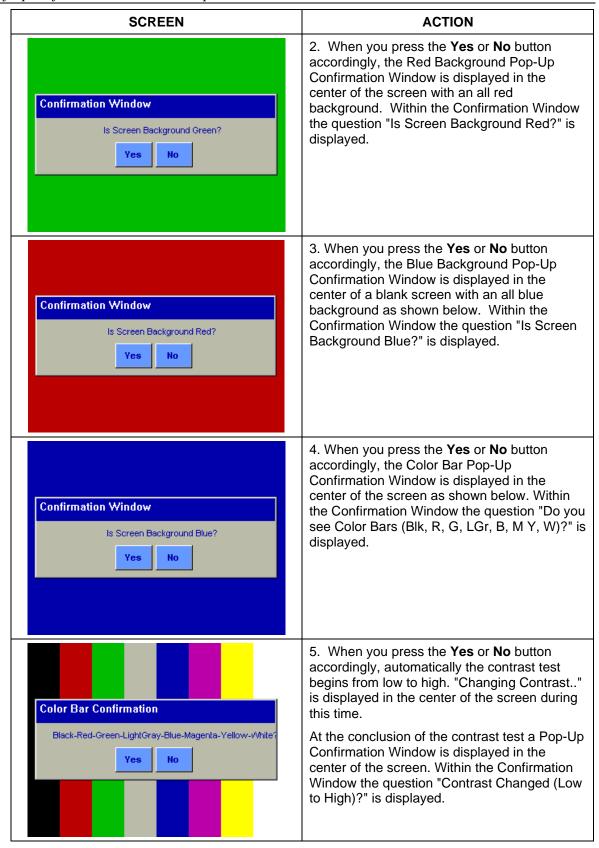


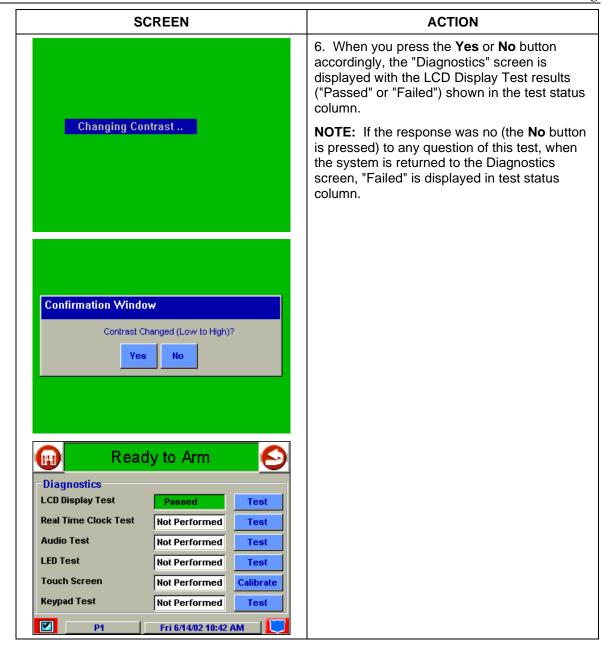
Once the Diagnostics screen is exited, subsequent entry to this screen displays all test options as "Not Performed."

LCD Display Test

Perform the LCD Display Test as follows:

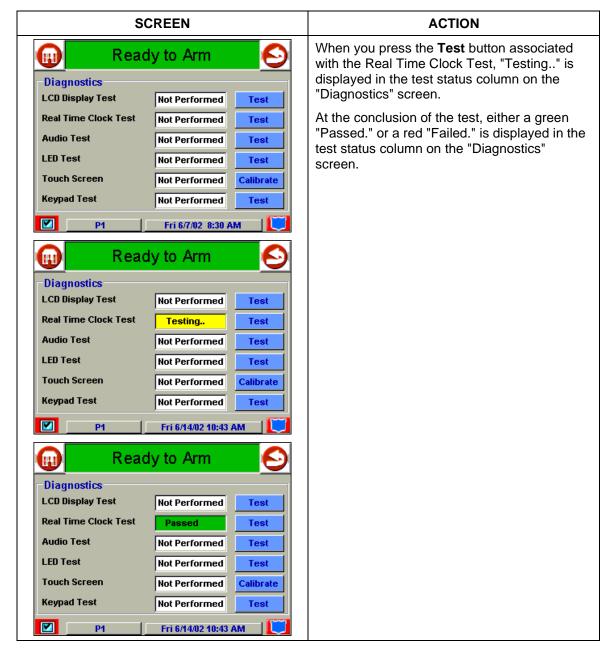






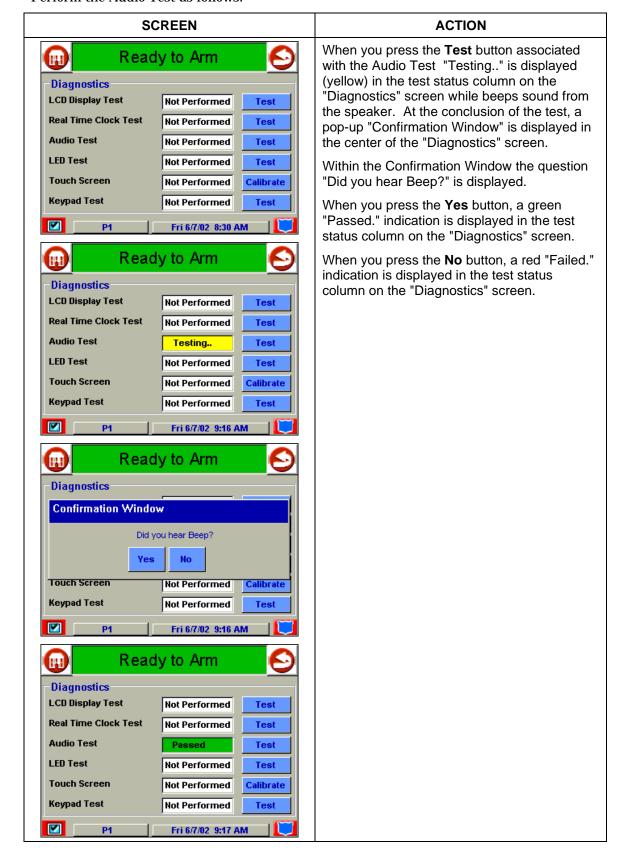
Real Time Clock Test

Perform the Real Time Clock Test as follows:



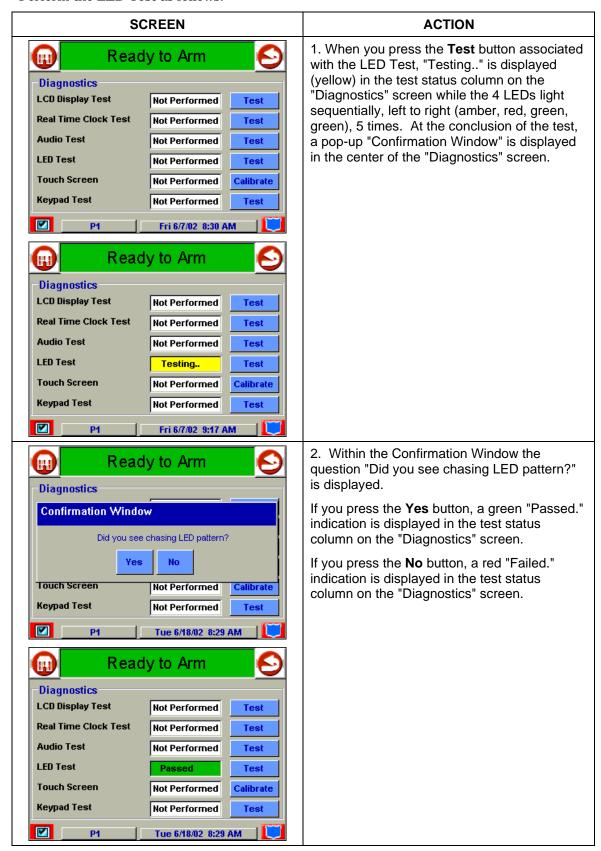
Audio Test

Perform the Audio Test as follows:



LED Test

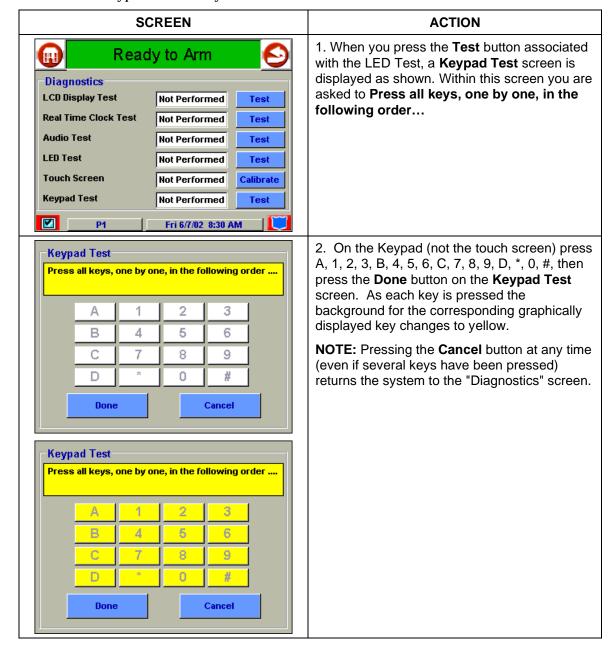
Perform the LED Test as follows:

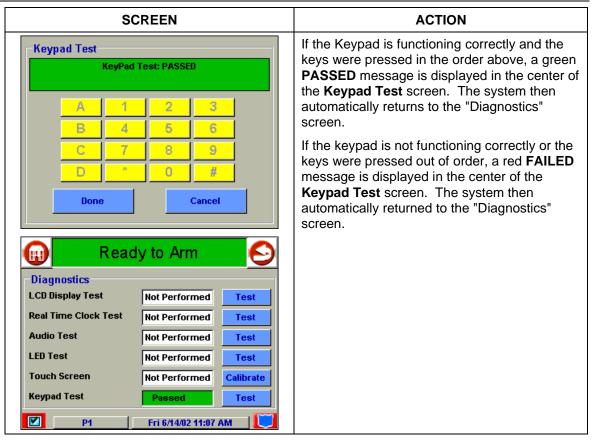


Keypad Test

Perform the Keypad Test as follows:

NOTE: The Keypad Test is only used on the 8142.

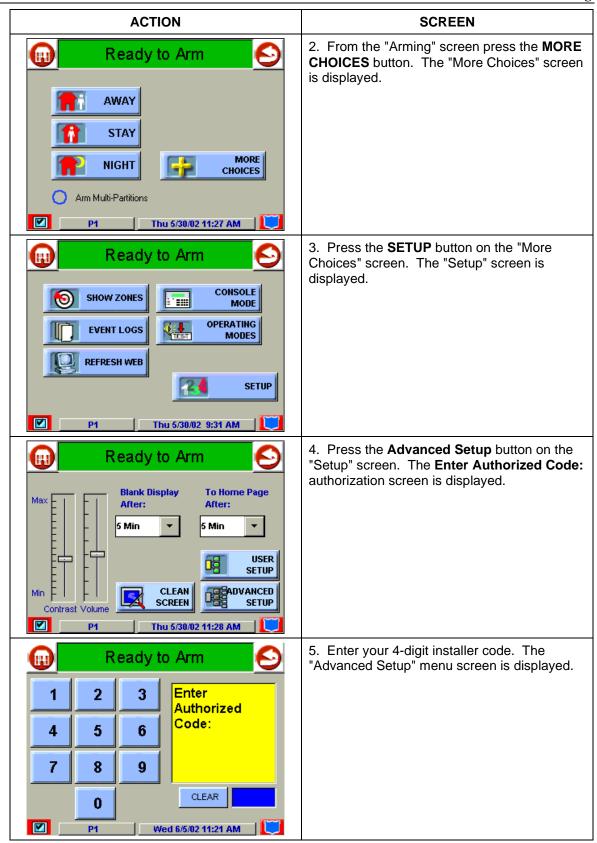


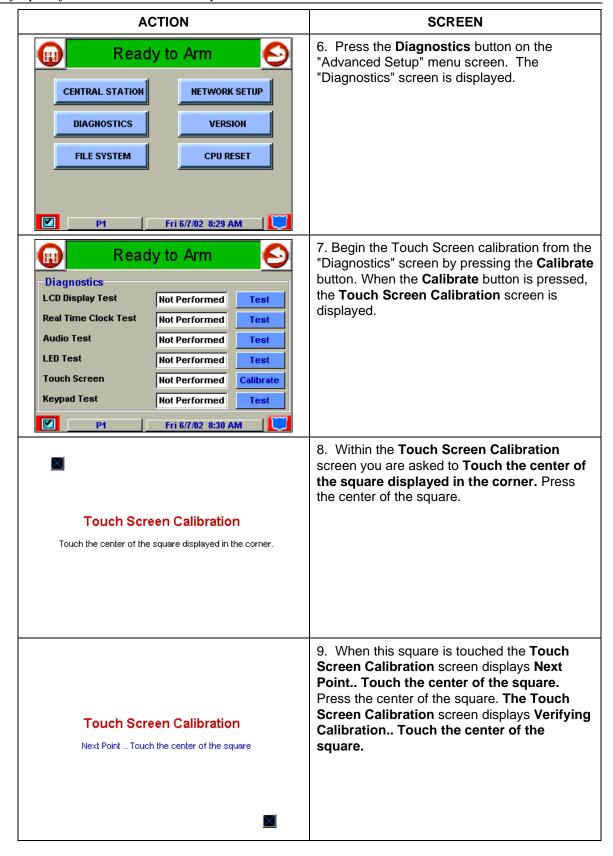


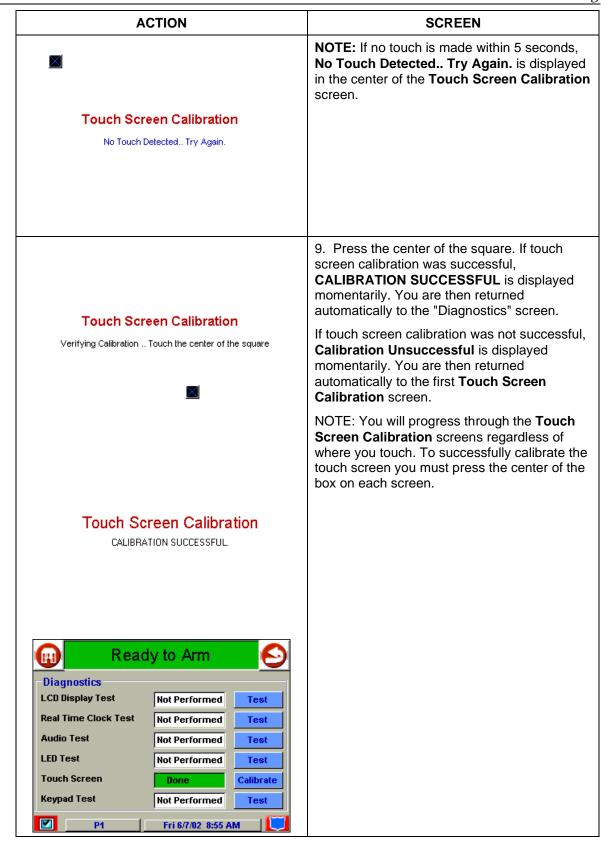
Touch Screen Calibration

Calibrate the touch screen as follows:









SCREEN
NOTE: If no touch is made within 5 seconds, No Touch Detected Try Again. is displayed in the center of the Touch Screen Calibration screen.

Symphony/Symphony-i LED Operation

Your Symphony/Symphony-i has four LEDs that are labeled: WEB (yellow), ARMED (red), READY (green), and MESSAGE (yellow). The status of each of these LEDs indicates specific operational states. These states are:

- Normal (idle)
- Software download
- Software download Failure Modes

Each LED can have four different status indications: ON, OFF, FAST BLINK, and SLOW BLINK. All LEDs do not use all of the above states. Details are provided below.

LEDs During Normal (Idle) State

LED	DESCRIPTION
WEB	ON – Connected to Internet.
	OFF – Not connected.
	FAST BLINK – Either sending or receiving data.
	SLOW BLINK – Connecting to server (BB) or dialing to RAS server (DU).
ARMED	ON – Security system is armed.
	OFF – Security system is not armed.
READY	ON – Security system is disarmed and ready to arm.
	OFF – Security system is disarmed but not ready. Faults/troubles present.

LEDs During Software Downloading

LED	DESCRIPTION
WEB	ON – Obtained IP address (via either DHCP client or static IP assignment) (BB) or established link to RAS server (DU).
	SLOW BLINK – Connecting to server (BB) or dialing (DU).
ARMED	ON – Connected to server.
	FAST BLINK – Could not connect to server (no route or authentication failure).
	SLOW BLINK – Connecting to server.
READY	ON – Successfully downloaded configuration data.
	FAST BLINK – Could not download configuration data or if with ARMED FAST BLINK then it connected to server but failed authentication.
MESSAGE	ON – Erasing application code.
	SLOW BLINK – Downloading application code.
	VERY SLOW BLINK – Verifying CRC after successful code download.

LED Operation When Software Download Fails

There are the following sequences providing the extra failure information:

- 1. CRC failure 1 (calculated CRC does not match CRC provided with binary)
- WEB, ARMED, READY and MESSAGE all FAST BLINK for 3 seconds, following
- WEB, ARMED, READY and MESSAGE ON for 3 seconds and following
- WEB, ARMED, READY and MESSAGE FAST BLINK for 3 seconds.
- 2. CRC failure 2 (calculated network CRC does not match CRC provided with binary)
- WEB, ARMED, READY and MESSAGE all FAST BLINK for 3 seconds, following
- WEB, ARMED, READY and MESSAGE SLOW BLINK for 3 seconds and following
- WEB, ARMED, READY and MESSAGE FAST BLINK for 3 seconds.

1	i Installation and	1		

Specifications

Specifications

8142

MECHANICAL			
Dimensions:			
Width:	7 ¾ inches		
Height:	8 ¼ inches		
Depth:	1 ¼ inches		
ELECTRICAL			
Operating Voltage:			
Current Drain:			
Standby - LCD off, Sound off	150mA		
Active - LCD on, Sound off	350mA		
Alarm - LCD off, Sound on	200mA maximum		
Alarm - LCD on, Sound on	400mA maximum		

8132

MECHANICAL			
Dimensions:			
Width:	8 inches		
Height:	5 ¾ inches		
Depth:	1 ½ inches		
ELECTRICAL			
Operating Voltage:			
Current Drain:			
Standby - LCD off, Sound off	150mA		
Active - LCD on, Sound off	350mA		
Alarm - LCD off, Sound on	200mA maximum		
Alarm - LCD on, Sound on	400mA maximum		

Symphony/Symphony-i Installation and Setup Guide			

Glossary

Glossary

DHCP (Dynamic Host Configuration Protocol). Provides a mechanism for allocating IP addresses dynamically so that addresses can be reused when hosts no longer need them.

DNS (Domain Name System). A distributed hierarchical naming system used to resolve domain names (e.g., www.yahoo.com) into numerical IP addresses (e.g., 204.17.25.1.).

DSL - Digital Subscriber Line

Gateway IP Address - A gateway (sometimes called a router) is a computer and/or software used to connect two or more networks (including incompatible networks) and translates information from one network to the other. The Gateway IP address is the IP address for the gateway.

IP - Internet Protocol

IP Address - A unique number consisting of 4 parts separated by periods, sometimes called a "dotted quad.," for example: 204.17.29.11, assigned to every computer/workstation connected to the Internet. IP numbers can be "static" (assigned and unchanging) or "dynamic," assigned via DHCP at each and every startup.

ISP - Internet Service Provider

LAN - Local Area Network

MAC Address -The hardware address of a device connected to a network.

NAT - Network Address Translation

PPP - Point-to-Point Protocol

PPPoE - Point-to-Point Protocol over Ethernet

RCPP - Remote Control Proxy Protocol

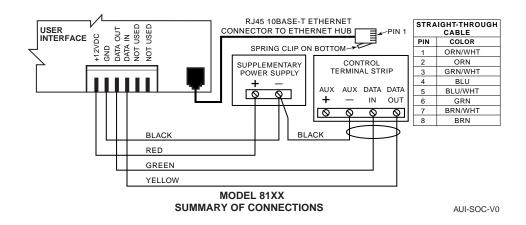
Subnet Mask - A Subnet is a portion of a network that shares a network address with other portions of the network, and is distinguished by a subnet number. The Subnet Mask is a 32-bit address mask used in IP to indicate the bits of an IP address that are being used for the subnet address.

TCP/IP - Transmission Control Protocol / Internet Protocol (packet-based protocol)

UDP - User Datagram Protocol

WAN - Wide Area Network

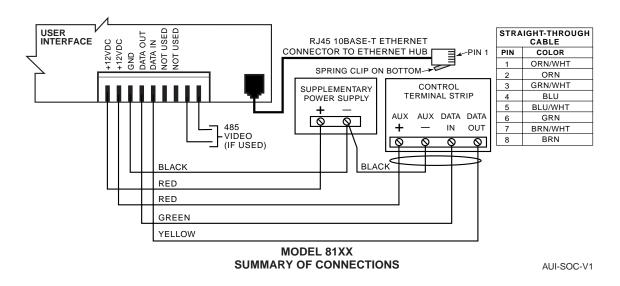
Symphony/Symphony-i Installation and Setup Guide			



UL

Use a Listed Class 2 power supply suited for the application.

Summary of Connections Using 6-Pin Connector



 UL

Use a Listed Class 2 power supply suited for the application.

Summary of Connections Using 9-Pin Connector

ADEMCO LIMITED WARRANTY

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K5762V6 12/02