


Prism2

# Graphical Interface Technical Guide

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**This manual is also available for download from our website—www.aaon.com/Prism—where you can always find the latest Prism 2 literature updates.**


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AAON P/N: G019170, Rev. 01U

Prism 2 is a complete Windows®-based graphical interface that allows you to interact with most AAON digital controls. The program provides standard, easy-to-understand status, setpoint, and configuration screens for each type of controller and has provisions for custom screens which allow for floor plans, equipment photos, or user-defined summary screens.

Prism 2 allows you to access and control schedules, trend logs, and alarm conditions. The program can be configured for direct on-site installation or TCP/IP Internet connection.

The Prism 2 program is a completely redesigned release of the original Prism Graphical Computer Interface. This program should be used on all new installations containing standard AAON Controls product families.

**NOTE:** This manual is written for a person with a working knowledge of Windows® 10 and does not describe in detail the process of copying files or other Windows® related functions. Learning the operation of Windows® is the responsibility of the operator using this equipment.

## Feature Summary

Prism 2 provides a broad set of features:

- Easy to use
- On-site or TCP/IP communications
- User programmable description for every piece of equipment and user-defined custom screens
- Automatic retrieval of trend logs and export capability to spreadsheet and database programs
- Alarm Logs maintained on disk
- Alarm E-mail /texting capability when using a CommLink
- Encrypted History Logs

## System Requirements

To use Prism 2 you must have a computer that meets or exceeds the following requirements:

#### Operating System

- Microsoft® Windows® 10
  **NOTE:** Prism 2 is not intended for a client/server environment nor for any version of Windows® Server.

#### Minimum Hardware

- Windows® compatible computer
- CommLink 5 or USB Link 2 for direct, on-site connection
- IP Module for remote connection
- Prism is NOT supported in a server environment. It does not support client/server systems. Prism is a LAPTOP/DESKTOP ONLY system.

**WARNING: Older operating systems, while they still might be capable of running Prism, are not recommended due to security updates being obsoleted by Microsoft®. We also do not support troubleshooting of any version of Windows® operating the Prism program. Some new models of laptops running the latest release of Windows® 10 have also experienced issues running Prism, and we cannot troubleshoot customer computer issues.**

**NOTE:** Your Windows® text size should be set for "Resolution - 100% (default)" found in Settings/System/Display (Windows 10) or *right-click* on Desktop and *click* Display Settings. Having the Scale setting higher than 100% may cause Prism's graphics to display improperly. See the section, "Setting Your Screen Resolution" on **page 4**.

## Software License

Prism 2 does not require any license agreement and may be freely copied and distributed.

## Support Information

AAON Controls provides Prism 2 installation and configuration support. Call (866) 918-1100 for free, direct telephone support or (816) 505-1100 to talk to a Controls Support Representative. Support for all telephone services is available Monday through Friday, 7:00 AM to 5:00 PM central standard time.

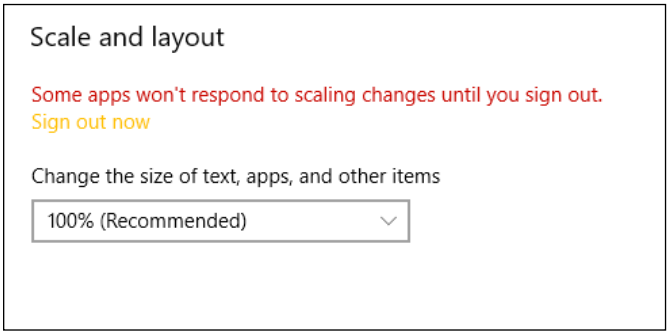
**NOTE: AAON Controls Support cannot troubleshoot internal PC and/or Windows®-based operating system problems.**

**NOTE: AAON Controls Support cannot troubleshoot firewalls, routers, and/or problems on a customer's internal or external network. An IT professional may need to be consulted.**

## Setting Your Screen Resolution

In order for Prism 2 to display properly on your computer screen, your screen resolution must be set to the default which is small font. If it appears that your graphics are not aligning properly, verify your system's font size as follows (directions are for Windows 10):

*Click* on **<Start>**, **<Settings>**, **<System>**, **<Display>** or *right-click* on Desktop and select **<Display Settings>**. Under Scale and layout, from the drop down menu, select 100%.




You will need to exit the System window for the changes to take effect.

## Terms and Conventions

Commands are italicized. For example, the instructions will tell you to *press* keys that are found on the keyboard, *click* or *select* buttons and keys that are found on the screens, and *enter* or *type* text.

User input is boldface and enclosed in quotation marks. For example, you would type the numbers 9288 when the directions tell you to *type* "**9288**."

All keys, buttons, and menu items that perform a function and are found on screens or the keyboard are boldface and enclosed with brackets. For example: *press* the **<ENTER>** key; *click* **<Edit Passcodes>**.

Main menus and field names are capitalized and in boldface. For example, "*Type* a number in the **Number** field." "You can access that information from the **Communications Menu**."

Screen and window names will always be capitalized and italicized. For example, "The *Search for Units Dialog Box* will appear."

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**NOTE:** You ***MUST*** *press* the **<ENTER>** key after data entry in order for the Prism program to accept and save your entry.

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## Step By Step Guide Map

In order to operate Prism 2 effectively, you should read this entire guide. This guide will lead you through each step in configuring Prism 2—from entering passcodes to searching and selecting units for troubleshooting. Below is a quick overview of each step.

**Step 1: Installing Prism 2**—This section explains how to install the Prism 2 software, initiate communications, and navigate the program.

**Step 2: Logging In**—This section explains how to enter and edit user names and passcodes.

**Step 3: Setting Up Job Sites**—This section provides instructions for setting up each job site's name, port, IP address, CommLink type and configuration, alarm notification, and custom screen designation.

**Step 4: Configuring Prism 2**—This section describes how to have Prism 2 automatically restart after a power failure and broadcast time to all controllers. It also explains how to set up the main screen display picture.

**Step 5: Setting Up Communications**—This section explains how to establish communications via TCP/IP connection through your CommLink.

**Step 6: Searching for Installed Units**—This section explains how to perform a unit search per job-site.

**Step 7: Selecting and Renaming Loops and Units**—This section explains how to select and rename loops and units.

**Step 8: Configuring Units**—This section describes how to configure controller setpoints, schedules, and overrides. It also explains how to configure units while off-line.

**Step 9: Configuring Unit Alarms**—This section explains how to individualize alarm settings for each controller.

**Step 10: Polling For Alarms**—This section explains how to view, acknowledge, print, and delete alarms.

**Step 11: Logging and Printing**—This section explains how to load, view, and print trend logs from individual controllers.

**Step 12: Tenant Override Logging**—This section explains how to poll controllers for tenant override logging.

**Step 13: Creating Custom Screens**—This section explains how to create Custom Screens containing text, images, and live data.

**Appendices**—The appendices include examples of status and setpoint screens, instructions for DEMOMODE, instructions for setting up alarm polling for the System Manager Touch Screen, and a list of controllers, E-BUS modules, and other devices that can be updated using Prism.

# Step 1: Install Prism 2 Software

## Install from the Flash Drive

**Step 1:** *Close out* all other programs and applications.

**Step 2:** *Insert* your Prism 2 flash drive into your PC's USB port. Locate the Prism_XX_.exe file and double-click on it."

**Step 3:** The *Extract Window* shown below will open. Make sure C:\PrismII is your destination and select **<Unzip>**.


**Step 4:** The files will be extracted to a folder on your C drive called PrismII. **Note:** If you already have a PrismII folder at this location, the program will ask you if you wish to overwrite the files. *Select* "Yes to All."

**Step 5:** Once the files are done extracting, close your Unzip Window and open the PrismII folder on your C drive.

**Step 6:** *Click* on PrismII.exe to open the Prism 2 program. **Note:** To send the program shortcut to your desktop, *right-click* on the PrismII.exe file and *select* "Send to Desktop."

This is how the Prism 2 icon should appear on your desktop. The background color is determined by your local computer's desktop settings.

## Download from One of Our Websites and Install

**Step 1:** *Close out* all other programs and applications.

**Step 2:** *Open* your browser and access our website—www.aaon.com/prism. *Click* on the "Prism 2 Software" thumbnail to the right to download the latest software version.

**Step 3:** Locate the Prism2_X.X.exe file you just downloaded on your computer and double-click on it. A security warning may appear depending on your security settings. This occurs with any file you download and try to open that is not a Windows® verified product. If you see this message, please *select* the "Run" button to open the Prism2_X.X.exe file. This will allow WinZip self extractor to open and allow you to extract the Prism 2 program.

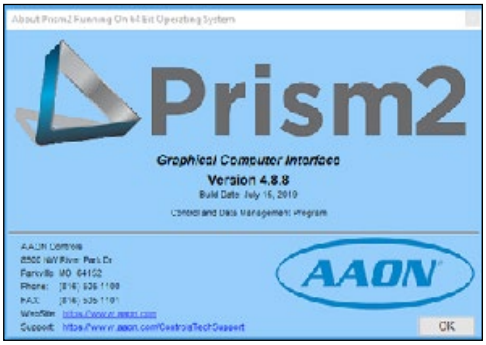
After the "Run" button is clicked, the Winzip self extraction window will appear. *Select* the "Unzip" button to extract the file to your computer. **The default location is C:\PrismII. Do Not change this location!**

**Step 4:** Locate the C:\PrismII folder on your computer. Open the PrismII folder and *double-click* on the PrismII.exe file. The program will open and run. **Note:** To send the program shortcut to your desktop, *right-click* on the PrismII application file and *select* "Send to Desktop."

This is how the Prism 2 icon should appear on your desktop. The background color is determined by your local computer's desktop settings

## Verifying Successful Installation

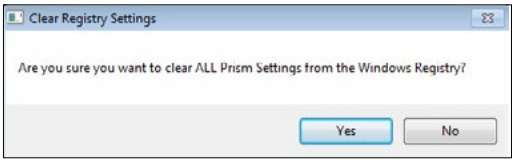
Once the program opens, *click* the "Help" tab on at the top of the *Prism 2 Main Screen* and *click* **<About>**. The window below will appear, displaying the version you just installed. Notice also that the type of operating system appears at the top of the window - 32 bit or 64 bit. You will need to know this when installing the USB drivers for the CommLink, USB-Link, or any other AAON device you connect to your computer.




If the window shows a different version than what you intended to install, try re-installing the software. If you need help installing the software, please call (866) 918-1100 for free, direct telephone support or (816) 505-1100 to talk to a Support Representative, Monday through Friday, 7:00 AM to 5:00 PM central standard time.

## Clear All Prism Settings in the Windows Registry

If windows aren't appearing in Prism as they should, first close out ALL windows except the Main Screen, then *click* on the AAON logo in the *About Window* above to set things back to normal. *Click* **<Yes>** at the prompt in the dialog box below which asks, "Are you sure you want to clear ALL Prism Settings from the Windows Registry?" **NOTE**: This only works for Level 4, 5, and 9 users. Setpoints and configurations ARE NOT affected by this procedure.



# Communications & Prism 2 Main Screen

## Communications


Several of the operations available with Prism 2 require that communications be active. At the top of the *Prism 2 Main Screen* is a button that displays **<Off Line>** when communications are not active. To activate or de-activate communications, simply *click* on this button. When communications are active, the button will turn green and display **<On Line>**.

If there is a problem establishing communications, the button will not turn green, letting you know that a problem has occurred that needs to be corrected.

## Prism 2 Main Screen

When you first open Prism 2, the *Prism 2 Main Screen* appears. (**Figure 1**)

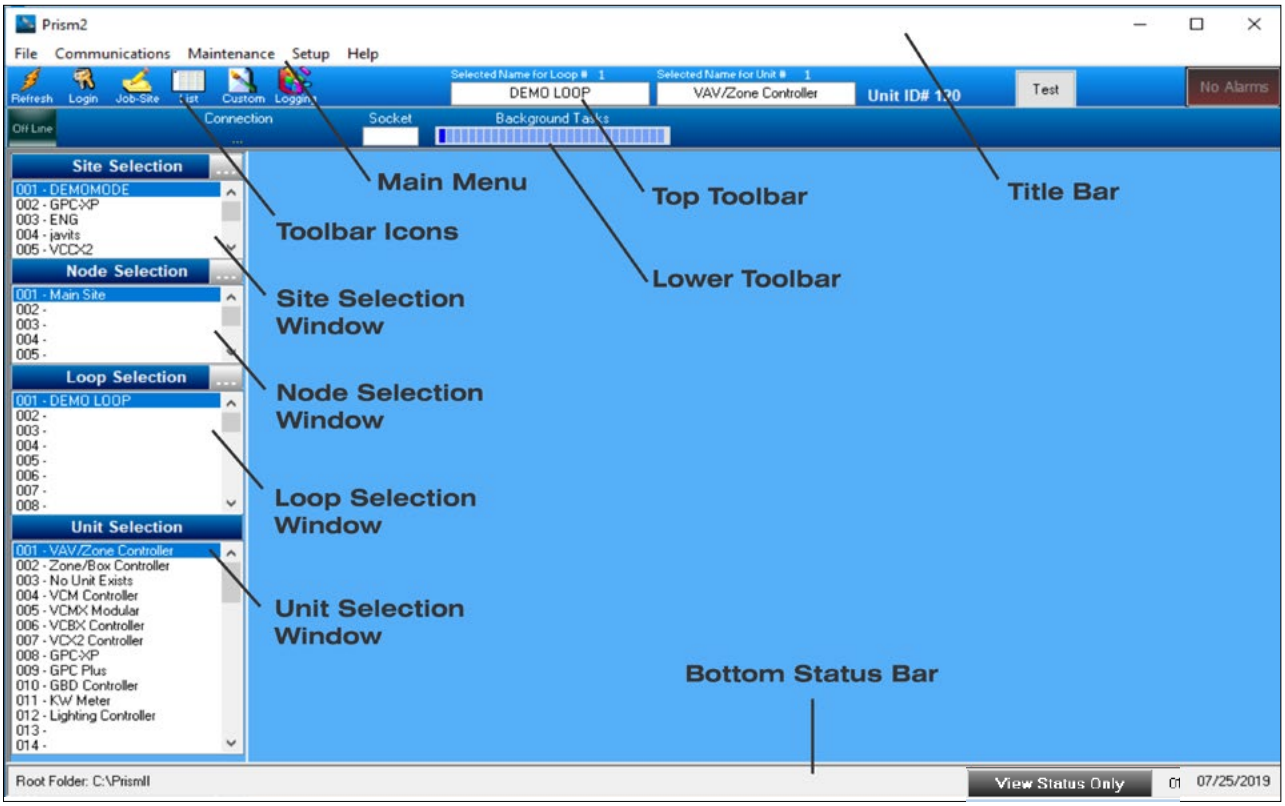



**Figure 1: Prism 2 Main Screen**

The *Main Menu* contains the menus: **File**, **Communications**, **Maintenance**, **Setup**, and **Help**.

The *Top Toolbar* displays the **Refresh**, **Login**, **Job-Site**, **List**, **Custom**, and **Logging** buttons, **Selected Loop Name**, **Selected Unit**, **Unit ID #**, and the **Alarm** button.

The *Lower Toolbar* displays the **On-Line/Off-Line** button, **Connection**, and **Socket**.

The *Bottom Status Bar* displays the **Program Status**, **Access Level**, and **Current Date**.

Located on the left side of the screen are the *Site, Node, Loop* and *Unit Selection Windows*.

# Prism 2 Main Screen

## Top Toolbar


The *Top Toolbar's* items are described below:

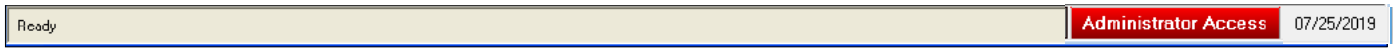
- **Refresh Button** - Manually refreshes the screen. You may want to do this whenever you make a unit configuration change.
- **Login Button -** Opens the *Enter Passcode Dialog Box*, allowing each user to enter their user name and passcode and gain access to the system.
- **Job-Site Selection and Setup Button** - Opens the *Job Sites Window* where you enter job sites, nodes per location, serial port or comm port #, IP address if applicable, and main screen display picture. You can enter 500 job sites, 500 nodes per job-site, 60 loops per node, and 60 units per loop.
- **List Button** - Opens the *List Window* where you can easily change names of loops and their units.
- **Custom Button** - Opens the *Custom Screen Graphics Program* for you to create custom screens for your controllers. Can only be accessed with a level 3 passcode.
- **Logging Button** - Opens the *Trend Logs Window* where you can view, print, and graph system data.
- **Selected Loop** - Indicates the **Loop** selected in the *Loop Selection Window*. You can also rename the loop here.
- **Selected Unit** - Indicates the **Unit** selected in the *Unit Selection Window*. You can also rename the unit here.
- **Unit ID#** - Indicates the numerical identifier for the selected unit.
- **Alarm Button** - Indicates an alarm(s) condition when bright red and displays **<ALARM>**. Will display **<No Alarms>** when none are present.

## Lower Toolbar


The *Lower Toolbar's* items are described below:

- **Off Line/On Line Button** - Displays whether or not the system has established communications.
- **Connection** - Displays the IP address of the current job site. This applies to TCP/IP connections.
- **Socket** - Used for factory level support diagnostics.
- **Background Tasks** - When bars are full, this indicates background communications are busy and may interfere with program functionality.

## Bottom Status Bar




The *Bottom Status Bar's* items are described below:

- **Program Status Message** - Indicates Ready or Not Ready for the CommPort connection. Will also communicate the status of specific program tasks.
- **Access Level** - This button displays the access level—View Status Only (Level 0), Level 1, 2, 3, 4, Factory Access (Level 5), or Administrator Access (Level 9). If you click on this button while logged on, it will log you off and display View Status Only.
- **Current Date** - Displays the current date.

# Entering Your User Name & Passcode

## Step 2: Entering User Name & Passcode

**NOTE:** There are seven passcode levels. Level 0, Level 1, Level 2, Level 3, Level 4, Level 5—Factory Level Access, and Level 9—Administrator Access. User names and passcodes can only be set up and changed by the Administrator.

When you open Prism 2, the message **View Status Only** is displayed on the right corner of the *Bottom Status Bar*.



*Click* the **<Login>** button found on the top left of the *Prism 2 Main Screen*. The *Login Window* will appear.

**NOTE:** Aside from when clicking the **<Login>** button, the *Login Window* will automatically appear whenever Prism 2 needs a higher access level to perform a function.


**System Administrators**—Type in the Administrator User Name and Passcode and *press* **<Enter>** or *click* **<Login>**. By default, the User Name is admin and the Passcode is admin. The status message **Administrator Access** will now be displayed.


**WARNING: YOU SHOULD IMMEDIATELY CHANGE THE ADMINISTRATOR USER NAME AND PASSCODE IN ORDER TO SECURE THE SYSTEM! SEE PAGE 9 FOR INSTRUCTIONS.**

**All Other Users**—Once you have been given clearance, type in your User Name and Passcode. Then *click* **<Login>**. The *Login Window* will automatically close, and the passcode will be tested against all previously defined passcodes to determine the passcode's access level.

The status message **Level 1, Level 2, Level 3**, or **Level 4** will now be displayed.


You can log off the system by *clicking* on the access level indicator whenever you wish to secure the system.

## Passcode Clearance Levels

Below is a list of the passcode levels and the default actions that can be performed at the various levels.

**NOTE:** To increase or decrease the default passcode levels for changing Space Temperature Setpoints and/or Schedules, see Setup/ Configuring Prism 2 on **page 16**.

### Level 0—No Passcode Needed, View Status Only, Logged Off

Level 0 users can view alarms, temperatures, and other status but no changes can be made.

### Level 1

Level 1 users can view alarms and view and change space temperature setpoints.

### Level 2

Level 2 users can view alarms, change space temperature setpoints and operating schedules, but not configuration settings.

### Level 3

Level 3 users can change additional setpoints and settings and can setup the IP configuration.

### Level 4

Level 4 users have system manager access and can change all setpoints and configurations, **but not** user names and passcodes. Level 4 users can also access force modes. This Level is normally reserved for qualified HVAC service personnel.

### Level 5—Factory Level Access

Factory Level Access allows additional troubleshooting tools, configurations, and diagnostics. These items can only be accessed under the direction of AAON Controls Support.

### Level 9—Administrator Access

The default User Name is "admin" and the Password is "admin". Administrator Access is the only level that can Edit User Names and Passcodes. The defaults should be changed and recorded by the Administrator. If the Administrator forgets their login information, the currently programmed Level 1 to Level 4 users will still be able to access the system if they have been given clearance. If not, Prism 2 will be locked out to all users except for View Only Level. The Administrator will then need to call AAON Controls Support for instructions on how to restore operation.

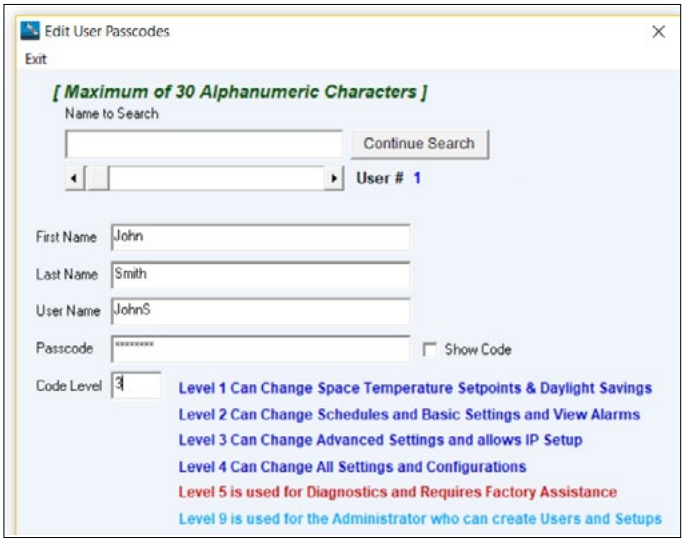
**NOTE:** Prism 2 is limited to one level 9 user. The name and password can only be changed in the first user slot that defaults to admin.

## Changing User Names & Passcodes

**WARNING: MAKE SURE YOU CHANGE THE ADMINISTRATOR USER NAME AND PASSCODE IMMEDIATELY IN ORDER TO SECURE THE SYSTEM!**

**NOTE:** Only the Administrator can edit User Names and Passwords. You MUST *press* **<ENTER>** in each field to have the system accept the information.

From the *Prism 2 Main Screen's* **File Menu**, *click* **<Edit Passcodes>**. The *Edit User Passcodes Window* will appear. See below for an example of setting up information for a Level 3 User.




**Step 1:** Identify the User Number by using the scroll bar. Or, if you already have the Users setup and are editing, you can type their name in the Search Field. If changing your Administrator User Name or Passcode, it will appear in the window ahead of User #1. *Click* the right arrow in the scroll bar and the user number will change sequentially. In the example above, you are setting up the information for User # 1.


You can enter 100 different users. This may increase in future versions.

**Step 2:** *Type* the first name of the User in the First Name field and *press* **<ENTER>**. In this example, the name is John. You can enter up to 30 alphanumeric characters. The First Name is used by the History Log to identify who logged into the system and any setpoint changes they may have made.

**Step 3:** *Type* the last name of the User in the Last Name field and *press* **<ENTER>**. In this example, the name is Smith. You can enter up to 30 alphanumeric characters. The Last Name is used by the History Log to identify who logged into the system and any setpoint changes they may have made.

**Step 4:** *Type* the user name of the User in the User Name field and *press* **<ENTER>**. The User Name could be a nickname or a shortened version of the person's name. You can enter up to 30 alphanumeric characters. In this example, the User Name is JohnS.

**Step 5:** *Type* a password in the Passcode field and *press* **<ENTER>**. *Click* the Show Code check box if you wish to see the characters while you are typing. You can enter up to 30 alphanumeric characters.

**NOTE:** A strong password is defined as at least 14 characters long and containing characters from at least 3 of the following 4 classes: upper case letters, lower case letters, numbers, and special characters, except for an apostrophe '.

**Step 6:** *Type* the passcode level of the User in the Code Level field. Valid entries are 1, 2, 3, & 4. *Press* **<ENTER>**. Refer to definitions of Passcode Clearance Levels on **page 8** for further details.

**NOTE:** Only the Administrator can be set for Level 9. The maximum level for a normal user is 4, but that level should only be reserved for maintenance personnel and not used by anyone else.

**Step 7:** When you are finished editing, *click* **<Exit>** to close the window.

## Job-Site Set-Up

# Step 3: Setting Up Job Sites

The second step in the Prism 2 Setup procedure is to program the specific job-site access settings and desired initial displays for each location.


*Click* on the **<Job-Site>** button located on the *Top Toolbar* of the *Prism 2 Main Screen*. The *Job Sites Window* will appear. (**Figure 2**)

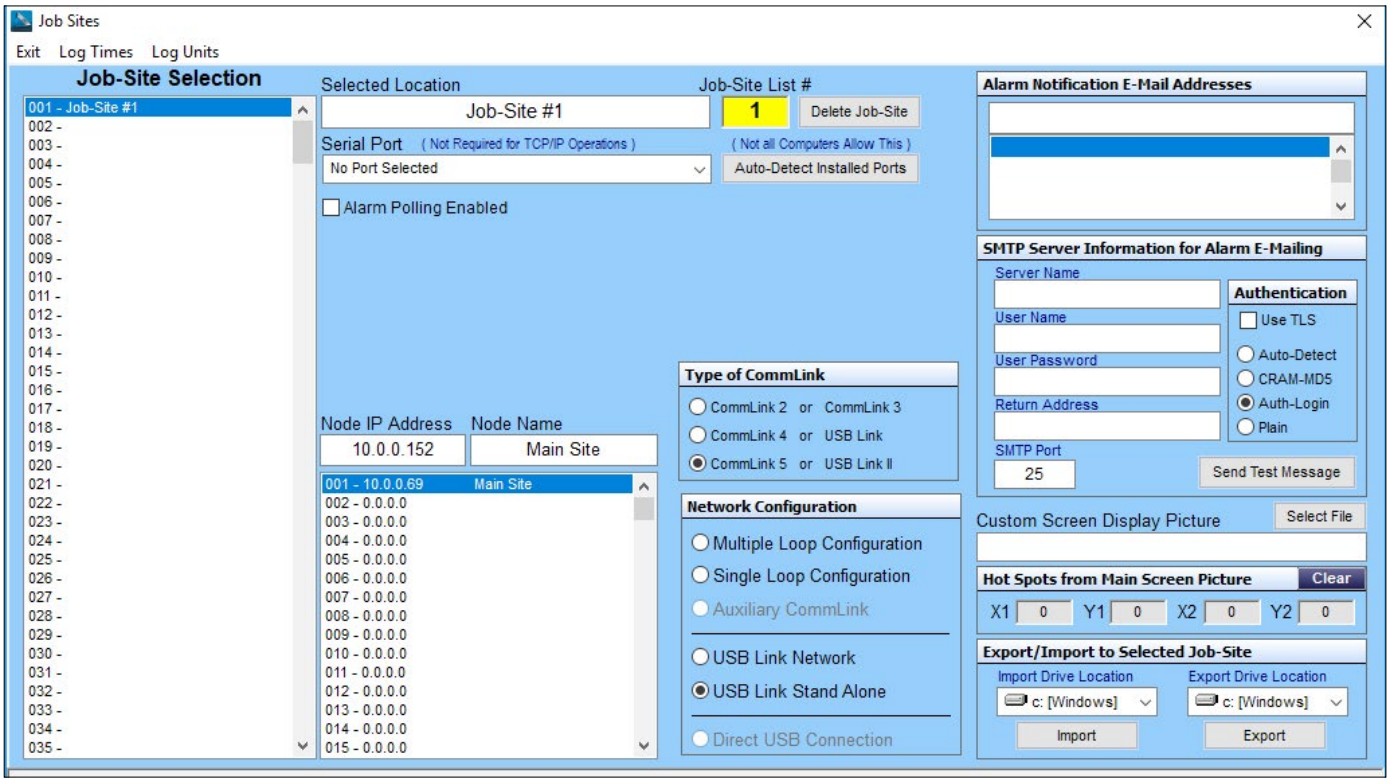


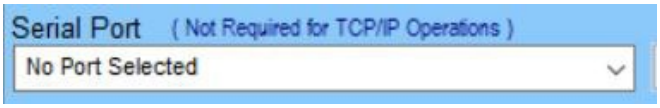

**Figure 2: Job Sites Window**

**NOTE:** You must configure each of the fields in this window for every one of your job sites.

### Job-Site Name:

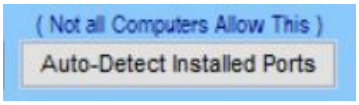
When you first open the *Job Sites Window*, the *Job-Site Selection Window* will be empty. *Click* on an empty location. The **Job-Site List #** will display the number you have selected. In the **Selected Location** field, *type* a name for your job-site and *press* **<ENTER>**.


### Serial Port:




**Serial or USB**—If Prism 2 will be connecting directly to a CommLink or USB-Link through the Serial or USB Port, *select* the port that you have connected your CommLink or USB-Link to and enter 0.0.0.0 for the **Node IP Address**. COM Port #9 is the maximum port number supported by Prism, so if your USB port is #10 or higher, you will need to manually force the port to a lower port number using the Device Manager found in your Windows® Control Panel. This procedure is documented in the *CommLink IV and CommLink 5 Technical Guides*.

### Auto Detect Installed Ports

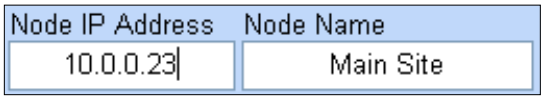



To the right of the Serial Port field is the button **<Auto-Detect Installed Ports>**. If you are not sure which port your USB cable is plugged into, some computers have the capability of automatically sensing this.

### Alarm Polling Enabled


If you require a time and date stamped log for alarming or you require e-mail notification of alarms, *check* this box to enable Prism 2 to poll for alarms. Checking this option will cause the Alarm button to light up on the *Prism 2 Main Screen*. Prism 2 must be left running on a computer 24 hours a day, 7 days a week for this function to operate correctly.

### Node IP Address and Node Name




**NOTE:** Only CommLink IV w/IP or CommLink 5 w/IP devices can be configured and used as multiple Node devices. Serial versions and older versions of the CommLink are not supported.

If you are not using an Internet connection, *enter* 0.0.0.0 in this field and *press* **<ENTER>**. If using TCP/IP, *enter* the IP address of your CommLink IV w/IP or CommLink 5 w/IP device and *press* **<ENTER>**.

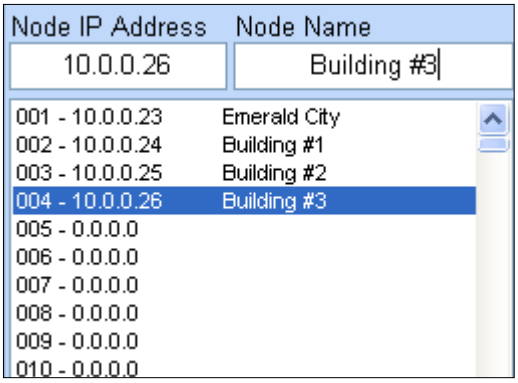
**NOTE:** If using a crossover cable to connect your CommLink IV w/IP or CommLink 5 w/IP to your computer, you will need to access your Network Settings in your Windows® Control Panel, change from DHCP to a Static IP Address, and enter the IP Address and Mask provided by your IT personnel.

The Node IP Address identifies the TCP/IP address of the Comm-Link IV w/IP or CommLink 5 w/IP that you will be accessing for the selected job-site. If your job-site has multiple buildings with multiple CommLink IV w/IP or CommLink 5 w/IP devices, each device address can be programmed here.

Simply select the location from the list box to program and type in the IP address in the xxx.xxx.xxx.xxx format. You can also enter a name for each Node or CommLink IV w/IP or CommLink 5 w/IP to aid in identifying which building you are communicating with. This allows multiple CommLinks to appear as one job-site, and Prism 2 will then be able to monitor all nodes for alarming or trend information instead of a single node. You can enter up to 500 nodes per job-site.

**NOTE:** Please avoid skipping Node addresses in the list box and keep all your CommLinks consecutively listed. 001 is always the Main Job-Site. The 001 Node Name defaults to Main Site, but you can change the name.

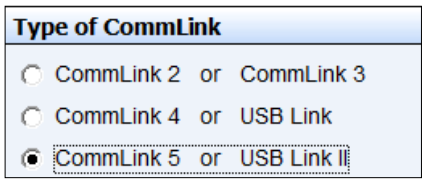
The figure below shows an example of Node IP Addresses and Node Names for a job-site with multiple buildings.




**NOTE:** You should never have a Serial Port and a Node IP address entered at the same time. Only one method of communications is available per job-site.

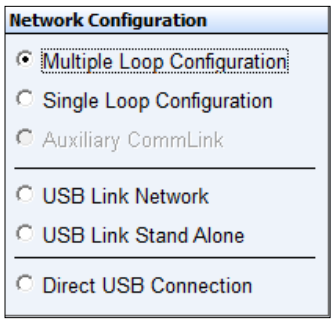
# Network Configuration and E-mail / Text Message Alarm Notification

### Type of CommLink




In the *Type of CommLink Selection Box*, *select* the type of CommLink or USB-Link that you are using. If you are setting up a node, the only type of CommLink you can use is a CommLink IV w/IP or CommLink 5 w/IP.

### Network Configuration




You must select the configuration of the CommLink or USB-Link you have connected to your computer as this affects setting up the CommLink and polling for alarms.

**Multiple Loop Configuration** — System contains MiniLinks that divide up the units across logical boundaries or contains large quantities of similar units that exceed the number of units allowed on a Single version CommLink. CommLink must be set to Multi.

**Single Loop Configuration** — System contains 60 or fewer units that can exist on a single communications loop. CommLink must be set to Single.

**Auxiliary CommLink** — This is only applicable on older existing systems. System contains a CommLink set to Multi and MiniLinks and the user needs to add a second computer to monitor the system. The second computer cannot be used for alarm monitoring.

**USB Link Network** — System contains a standard CommLink. USB-Link must be set to Network.

**USB Link Stand-Alone** — System does not have a CommLink or you are connected to a single controller and have disconnected the communication loop from the board. Set the USB-Link to Stand Alone.

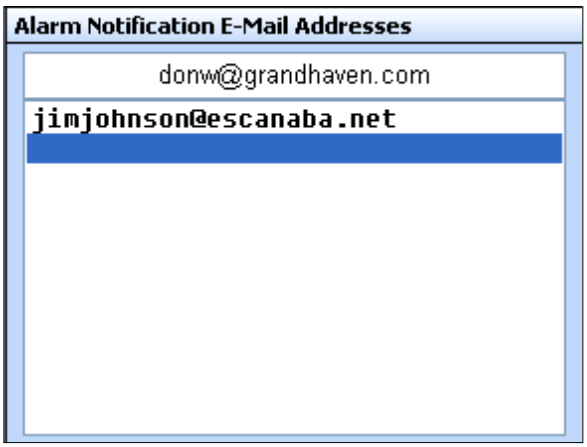
**Direct USB Connection** — For future use.

### Alarm E-Mail / Text Message Notification

**NOTE:** The alarm notification/text messaging feature only applies when using a CommLink. The USB-Link does not support this feature.

If you require e-mail or text message alarm notification, you may enter up to 10 e-mail addresses in this list box. Prism 2 must be enabled for Alarm Polling and must be running continuously to monitor for new alarms and generate e-mails containing the alarm information. See how to set up text messaging in the Text Message section below.

*Type* an e-mail address and *press* **<ENTER>**. The e-mail address




will appear in the box below the entry field. *Click* on an empty line below the e-mail address you just typed and then place your cursor back in the field to type an additional e-mail address. To delete an e-mail address, *click* on it so that it appears in the entry field, *highlight* it, and *press* the **<BACKSPACE>** key or **<SPACEBAR>** and then *press* **<ENTER>**.

Whenever an alarm is detected, each individual on the list will receive e-mail or text message notification of the site location, the unit address and description, and a brief text message identifying the alarm condition.

**WARNING:** Your computer must be set up with a standard e-mail account using any of the standard e-mail programs such as Outlook Express or Mozilla Thunderbird for this option to operate correctly! Failure to set up a standard e-mail account will result in unreliable alarm notifications!

**Text Message**— Most cell phone providers have e-mail to text service as a free* option (charges may apply in some instances). Any alarm type level that is generated would be sent to that cell phone number as a text message. *Usually cell phone providers will have an unlimited text messaging option. Check with your cell phone provider to see if they provide e-mail to text service.

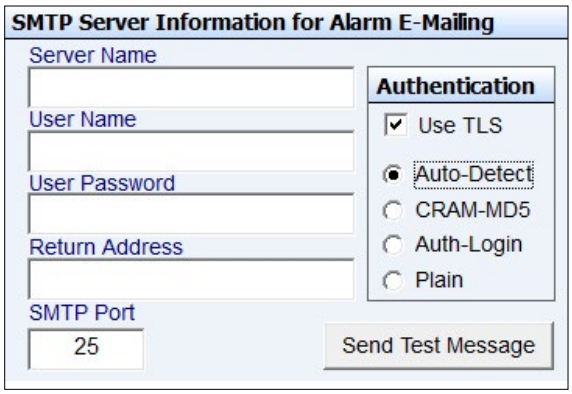
## SMTP Server Information for Alarm E-Mailing

**Server Name:**

This is the SMTP mail server provided when you set up your e-mail account. For example, smtp.[your server name].com.

**User Name:**

This is the e-mail address you created when you set up your e-mail account.




**User Password:**

This is the password required to send and receive mail on your account.

**Return Address:**

This is the address that is notified when the mail is undeliverable.

**SMTP Port:**

Use the default port given by your IT Department or ISP.

**In the Authentication Window:**

**Use TLS:**

This should be checked unless your e-mail service does not require secure e-mail transactions.

**Auto-Detect:**

If you don't know which method your server uses, you can select this option and the MailSend program will try each method and use the one that operates on your system.

**CRAM MD5:**

This would be the default method if TLS is checked. It is not available if TLS is not checked, but the other 3 methods are. Your service provider can tell you if this is the preferred method.

**Auth Login:**

Your service provider will tell you if this is the required method to send authenticated e-mail.

**Plain:**

No authentication is required to send e-mail.

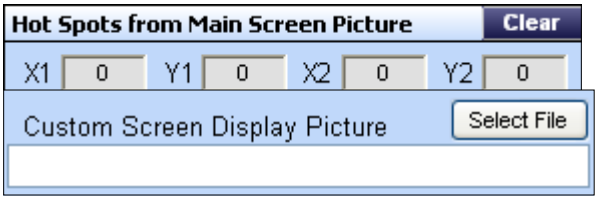
**Send Test Message:**

*Click* this button to send an alarm notification test message to everyone listed in the *Alarm E-Mail Notification Dialog Box*.

## Custom Screen Display Picture

Once you have created your Custom Screen(s) you can revisit this field. Custom Screen instructions are found on **page 33**. Custom Screens can be floor plans or groups of controllers or whatever you decide is necessary to ease the monitoring of your system. When you revisit this field, *click* the **<Select File>** button to select the custom screen you wish to be associated with the job-site. Once you choose a Hot Spot from the *Main Screen* display (described on **page 36**), you can *click* on the Hot Spot and go straight to the custom screen.

## Hot Spots from Main Screen Picture




Once you create a Hot Spot on the *Main Screen* display (described on **page 36**), the coordinates for the Hot Spot will show up in this field. If you have forgotten where you placed a Hot Spot, these coordinates will allow you to troubleshoot the location. If you want to delete a Hot Spot, *click* the **<Clear>** button.

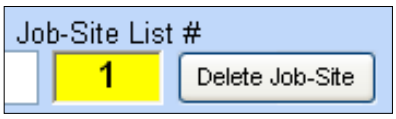
## Auto-Logging

### Export/Import to Selected Job-Site


Once you have completed setting up your job-site and have performed a search for all installed units (see **page 19**) and have given them names, you can revisit this field which enables you to copy job-site settings to another computer so you don't have to re-enter the information.

To export data, *select* the job-site you wish to export by highlighting it and then *select* the Export Drive Location to store this information. You can export to any form of removable media that your computer is capable of writing to. Make sure that the media you choose is supported by the computer you will be importing this data to! *Click* the **<Export>** button to initiate this procedure. Once the data is stored, take the removable media to the other computer, insert it, and *select* the Import Drive Location for that computer and the job site list number (*click* in the *Job-Site Selection List Box* to make this selection) and then *click* the **<Import>** button. All installed units and names should now appear on the *Prism 2 Main Screen* when you exit the *Job Sites Window*.

### Delete Job-Site




If you want to delete a job-site, *highlight* the job-site in the *Job-Site Selection Window* so that its name appears in the **Selected Location** field. Then *click* the **<Delete Job-Site>** button next to the **Job-Site List #** field.

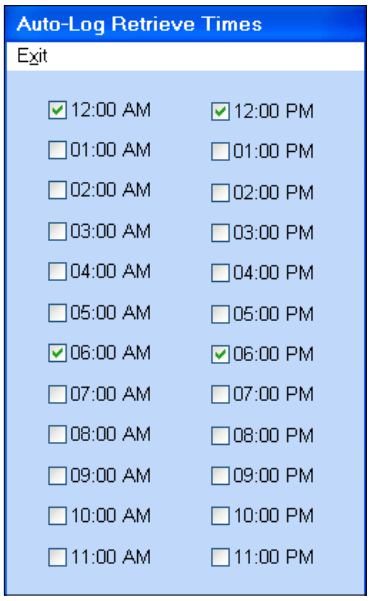
A message will appear asking you if you really want to delete the job-site. This is a precaution in case you click the **<Delete Job-Site>** button by mistake. *Click* **<Yes>** or **<No>**.

## Auto-Logging Settings

### Log Times

If you would like Prism 2 to automatically retrieve controller trend logs on a regular basis, *click* **<Log Times>** from the *Job Site Window's Top Menu Bar*. The *Auto-Log Retrieve Times Window* will appear. Select the times of the day you would like Prism 2 to perform this function.

**NOTE:** You can force Prism 2 to start the Auto Logging procedure at any time by making sure your communications are **On Line** and then *selecting* **<Start AutoLog>** from Prism 2's **Communications Menu.**




How often you should gather logs depends on the shortest logging interval you have specified on any selected controller. Some of the older families of controllers support 60 rows of log data whereas newer families have 120 rows. Each row of log data contains a time and date stamp and any relevant data for the type of control it performs.

For example, a Variable Air Volume Box Controller logs its Space Temperature, Heating and Cooling Setpoints, Supply Air, and Damper Position in each row.

If you entered the shortest log interval of 1 minute for a unit with 60 rows of data, you would need to retrieve data every hour to prevent loss of log data. If you left the default log interval at 15 minutes, then you could load the log data twice a day and not lose any data since 15 minutes times 60 rows = 900 minutes of data (15 hours).

On a unit with 120 rows, that same 15-minute interval would yield 1800 minutes of data or 30 hours, which means you could retrieve logs once a day without losing data. Don't worry about overlapping data if your logs exceed the auto-log interval. All duplicate data is discarded and any files created for a single day are loaded as a whole to create one log listing per day. Keep in mind that a time and date stamped file is created every time you retrieve a log from a controller, so unnecessary polling should be kept to a minimum. If you retrieve logs every hour, then 24 files will be created for each day of the year.

## Log Units

Once you have selected the Log Times, you need to select which units to retrieve log data from. If you have controllers such as Lighting Panels which don't have internal logs, you don't need to select them. Also, if you don't need archival storage of log data, you may only want to activate this feature to troubleshoot a job-site, and then disable this feature once everything is running smoothly again.

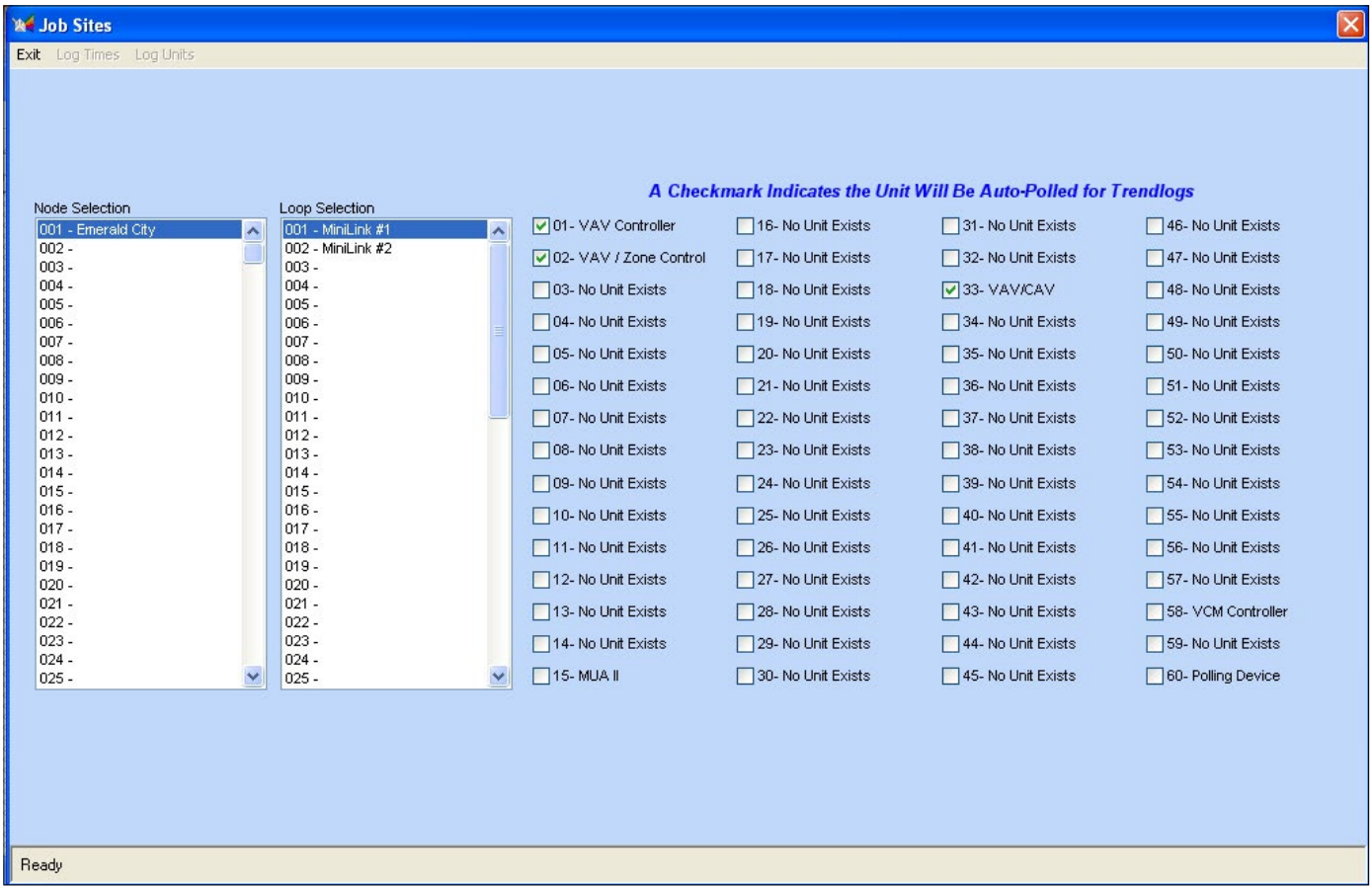
*Click* **<Log Units>** from the *Job Site Window's Top Menu Bar* and select units to be logged.

As you can see on this sample screen, only three units have been selected for auto-logging four times a day (See Log Times sample screen). All other units will be ignored during this process.

Keep in mind that on systems with multiple communications loops, you will need to select each loop one at a time from the *Loop Selection List Box* and then check each desired unit on the selected loop.

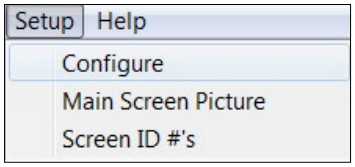
**NOTE:** If you are using multiple CommLink IV w/IP or CommLink 5 w/IP devices on a campus setting, you will need to select each Node and then each Loop along with the Units on those loops that you would like to auto-log. Prism 2 will open communications with each CommLink IV w/IP or CommLink 5 w/IP in order and retrieve the logs from each building.

**NOTE:** Auto-logging places a heavy demand on the communications pipeline. If you are viewing Status or Setpoint screens when it is time for an auto-log to occur, it would be best to close out your viewing session until the logging is complete. This helps to avoid missing packets of data or extending the logging procedure because it would be competing for communications time with a Status Screen polling for live data.



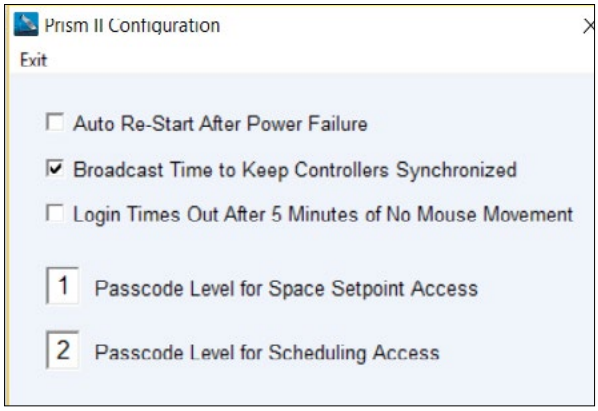
## Step 4: Configuring Prism 2

Prism 2 can be configured to poll for trend logs or alarm conditions on a continuous basis. If your computer experiences a power outage, Prism 2 will not automatically restart without a few user settings to make this happen.




From the **Setup Menu**, *click* **<Configure>**.

The *Prism 2 Configuration Dialog Box* will appear.




### Auto Re-Start After Power Failure

*Click* the checkbox for **Auto Re-Start After Power Failure**.

In order for Prism 2 to automatically restart after a power failure, you must place a shortcut to PrismII.exe into the C:\Documents and Settings\All Users\Start Menu\Programs\Startup folder.

When the computer reboots and Prism 2 restarts, the communications port will open up automatically and resume any alarm or trend logging.

An Uninterruptible Power Supply (UPS) device can be attached to your computer to handle the short power glitches and prevent the computer from needing to re-start. Longer power outages will still need this auto re-start method to return to normal operation.

### Broadcast Time to Keep Controllers Synchronized

Select this option to keep all controller real time clocks synchronized and to handle daylight savings changes.

*Click* the checkbox for **Broadcast Time to Keep Controllers Synchronized**.

**NOTE:** Prism 2 must be running on a continual basis for this option to work.

This broadcast occurs once an hour and is helpful in keeping all time stamped items, such as trendlogs, synchronized with each other.

### Login Times Out After 5 Minutes

*Click* the checkbox for **Login Times Out After 5 Minutes of No Mouse Movement** if you want the system to revert to View Only Status after 5 minutes of no activity.

### Passcode Level for Space Setpoint Access and Scheduling Access

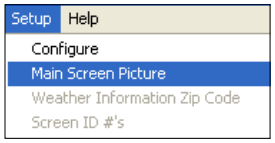
Although passcode level access defaults are set in the *Edit Passcodes Window* (see **page 9**), you can increase or decrease the default passcode level access for Changing Space Setpoints (default Level 1) and for changing Schedules (default Level 2) to levels between 0 through 3.

In order for Prism 2 to save any changes that you make in these fields, you must *press* **<ENTER>** after entering the new value.

**NOTE:** You must have a Passcode Level of 3 or above to change these settings.

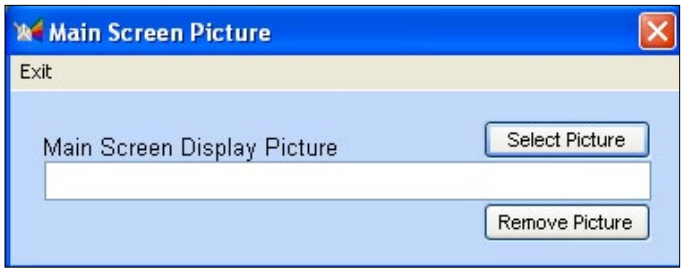
### Main Screen Display Picture

You can substitute Prism 2's *Main Screen* AAON Controls logo display with an image file (BMP, TIFF, GIF, JPEG, or PNG format) of your choice.

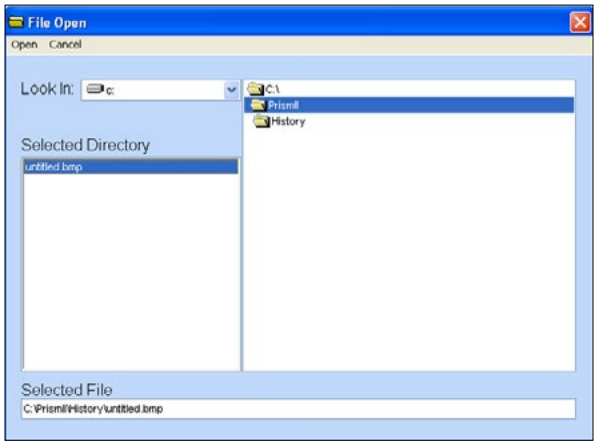



From the **Setup Menu**, *click* **<Main Screen Picture>**.

The *Main Screen Picture Dialog Box* will appear.



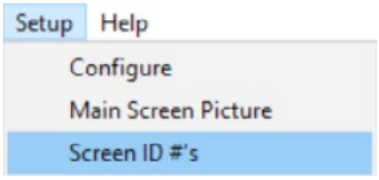

*Click* the **<Select Picture>** button to select your desired image. The *File Open Window* will pop up:



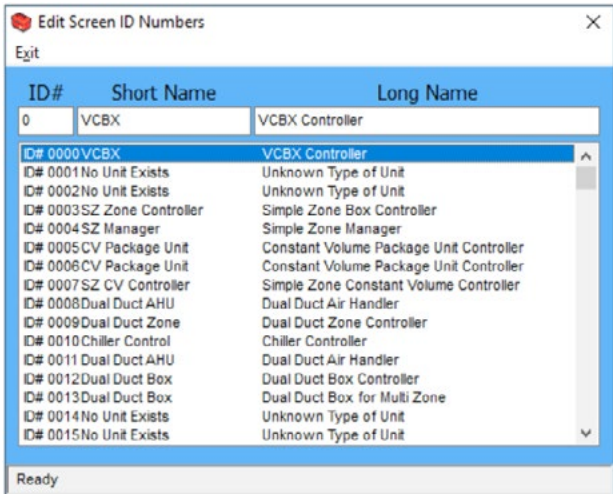

*Search* for the image until it appears in the **Selected Directory** field. *Click* the filename once so that it appears in the **Selected File** field and then *click* the **<Open>** button on the *File Menu Bar*. The file you choose should immediately appear in the *Main Screen* display.

### Screen ID #s

The Screen ID #s function is helpful for troubleshooting. It can identify the screens in your system when making a call to AAON Controls Support. Select **<Screen ID #s>** from the **Setup Menu**.




The *Screen ID # Dialog Box* will appear.



## Step 5: Setting Up Communications

This section discusses the initial settings required to get Prism 2 communicating with your AAON digital controls. Your CommLink communications device must already be installed and all communications wiring must be completed before Prism 2 can communicate with your system.



Once the job-site has been configured, you should be able to initiate communications with the attached CommLink device. *Click* on the **<Off Line>** button to force Prism 2 to open a communications port or socket to the CommLink. If it is successful, the button indicator will light up and display **<On Line>**.

Each time you click this button, Prism 2 will either open communications and display **<On Line>** or close communications and display **<Off Line>**.

---

**NOTE:** If you are using a USB-Link or auxiliary CommLink, you can skip the rest of this section and go directly to "Searching For Installed Units" on **page 19**.

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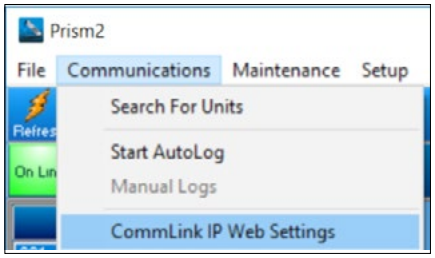
### TCP/IP Connection




If you are using a CommLink IV w/IP or CommLink 5 w/IP device, you need to set up initial settings by clicking **<CommLink IP Web Settings>** from the **Communications Menu**. When you plug in your CommLink IV w/IP or CommLink 5 w/IP device, this menu item will be accessible.

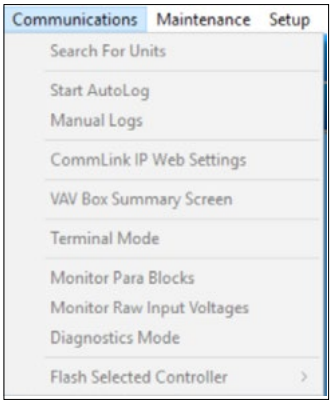
The *IP Module Technical Guide* is provided with the CommLink IV w/IP or CommLink 5 w/IP device which details all required settings and configurations and will not be discussed in this manual.

The initial setup is performed with your installed web browser. This option is provided in Prism 2 to eliminate the need to run a separate program to verify settings while troubleshooting or performing other changes as specified by AAON Controls Support.

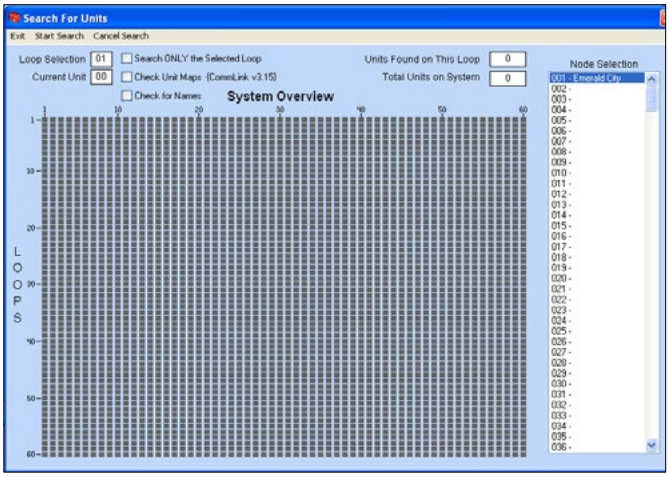
## Step 6: Searching For Installed Units

Once all controls are up and running and all communications have been set up and tested, you need to search for installed units on the communications loop.

Make sure Prism 2 is **On Line** and you have Level 3 access. If you are using a Remote Link, you will need to dial out to make a connection. From the *Main Menu*, click **<Communications>**, **<Search For Units>**.




The *Search For Units Screen* will appear.




If you are using a USB-Link, you should *select* the **Check Unit Maps** option or the search will not reliably detect installed units.

To search a single loop, *click* on any box on the desired loop, and *select* the **Search ONLY the Selected Loop** checkbox. Other loops will be ignored, but units previously found on other loops will not be discarded.

*Click* **<Start Search>**.The search process will automatically look at all 60 possible addresses on each loop unless you *click* **<Cancel Search>** to stop the process.

Each gray box symbolizes a board address from one to sixty on a maximum of 60 loops. As each unit is checked for on a loop, the gray box will turn yellow. If a unit is found, the box will turn green. If no unit exists at a specific address, the box will turn red.

If you are testing a specific address during installation or troubleshooting to see if it is recognized, find the correct box using the left mouse button. The selected loop and unit addresses will appear in the upper left corner in the **Loop Selection** and **Current Unit** fields. To actually test that unit, use the right mouse button. If the unit is found, the box will turn green; otherwise it will turn red.

Once all addresses are checked, the total number of units or controllers found for each loop will be displayed at the top of the screen.

If the number per loop matches the actual number of installed HVAC controllers, *click* **<Exit>** and save your search results.

If you think you have consecutively addressed all of your controllers but you see a green box located apart from the group, you can assume you have improperly set the address switch for that controller. However, in some cases, such as AHU Units and MiniLink Polling Devices, they will be located at the end of the loop at addresses 59 & 60 and no corrections are necessary.

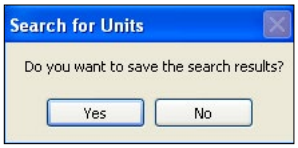
If the number does not match, you will need to diagnose the communications problem and perform searches until the number of detected units matches the number of installed units.

---

**NOTE:** You can *select* **<Cancel Search>** at any time if you know there are no more units to be found on your system.

---

*Click* **<Exit>** when you are finished with your search or wish to close the *Search For Units Screen*. The following message will pop up, asking if you want to save your search results:




*Click* **<Yes>** if the detected number matches the actual number of installed units and you wish to save the search results. If you *select* **<Yes>**, the new search file will overwrite any previously saved search file.

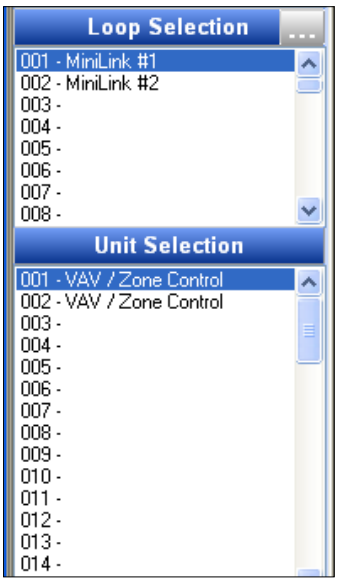
*Click* **<No>** if the numbers don't match or you are troubleshooting the system and don't want to save the results. If the numbers don't match, make sure your system is **On Line** and check other communication configurations as necessary.

No matter which search method is used, you can always choose to save or discard the search results when you exit this screen.

# Step 7: Selecting and Renaming Loops and Units

This section explains how to select and rename loops and units.

## Selecting Loops and Units



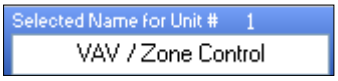

To open the status screen of a selected unit, simply *select* the correct Loop and Unit by *clicking* on the loop in the *Loop Selection Window* and *double-clicking* the unit in the *Unit Selection Window*. These window list boxes are located on the left side of the *Main Prism 2 Screen*.

Once a status screen is open, you can select other controllers with a *single-click* in the *Unit Selection Window* instead of a *double-click*.

## Renaming Loops and Units

The only way to rename loops is in the *Selected Name for Loop Box* located on the *Prism 2 Top Toolbar.* Once you have *highlighted* the loop in the *Loop Selection Window*, *type* in a new name for the loop and *press* **<ENTER>**.

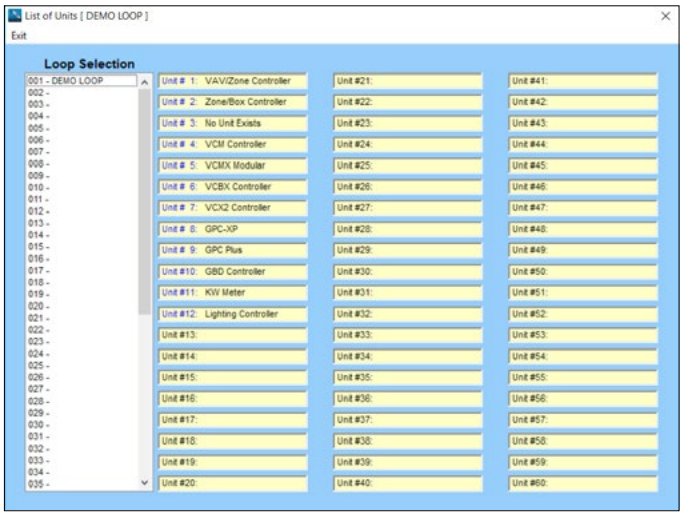

One way to rename units is in the *Selected Name for Unit Box* located on the *Prism 2 Top Toolbar*.




*Type* in a new name for the unit and *press* **<ENTER>**.

However, the easiest way to rename many units at once is by using the *List of Units Screen*.


From the *Prism 2 Main Screen*, *click* the **<List>** button located on the *Top Toolbar*. The *List of Units Screen* will appear.

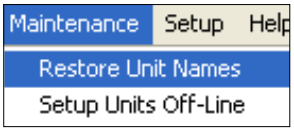



Simply *highlight* a loop in the *Loop Selection Window* and all 60 possible units on that loop will appear.

*Click* inside the blank area or unit name in a **Unit #** field, *type* in a name or new name, and *press* **<ENTER>**.

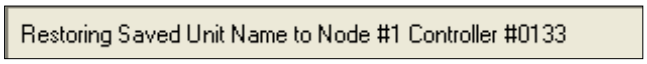
If you *click* on the words "Unit #" in the **Unit #** field, that unit's status screen will appear.

## Restore Unit Names




If due to an extended power outage, all of your unit names are missing or scrambled in the *Unit Selection Window* on the *Main Screen*, *click* **<Restore Unit Names>** from the **Maintenance Menu** to restore the unit names back to normal.

The status of the restore will be shown on the far left of the *Prism 2 Bottom Status Bar*.



# Step 8: Configuring Units

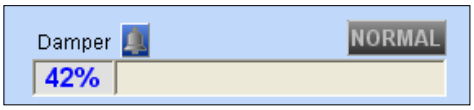
This section identifies the main components on most controller status screens and explains how to configure your system controllers by accessing and changing their setpoints and other controls. The complete list of status and setpoint screens will not be presented in the manual.

## Configuring Zone Controllers

When you select a Zone Controller, the status screen for that controller will appear. Following is an example of a Cooling Only VAV Box Controller Status Screen:


From each controller's status screen, you can access **<Setpoints>**, view and print **<Trendlogs>**, and **<Print>** a status report. These options are found at the top of the screen.

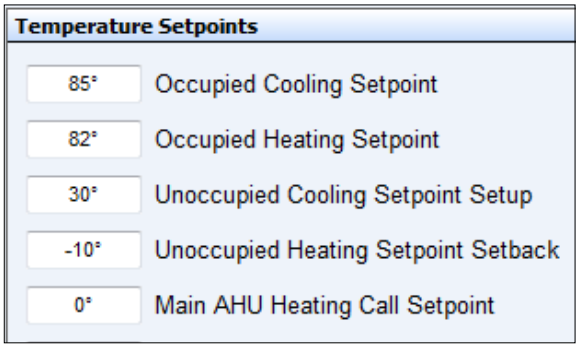
All box controllers can have their dampers forced for diagnostics or troubleshooting purposes. To force the damper, *click* on the button at the top right of the Damper display on the status screen. From the Damper display shown, you would *click* on the **<Normal>** button.




The *Damper Override Window* will pop up. To close the window, you must select one of the options. To keep the option, in this example **Normal Operation**, you would simply click again on the **Normal Operation** selection box to close the window.


### Zone Controller Setpoints

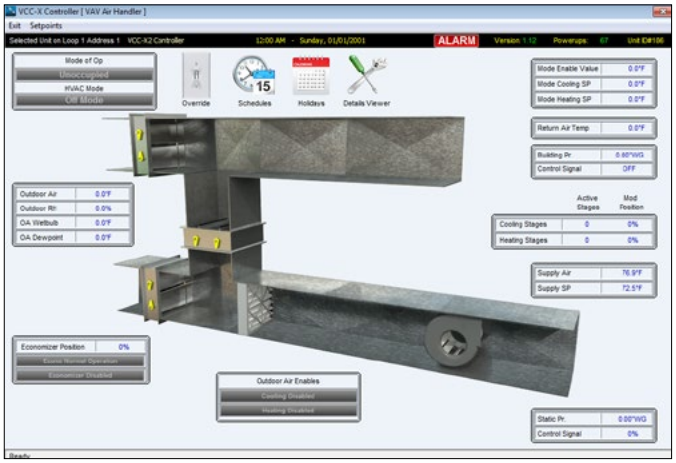
To configure all setpoints, *click* **<Setpoints>**. Below is an example of a Cooling Only VAV Box Controller Setpoint Screen:




From each Setpoint Screen, you can select other setpoint screens, **<Save Setpoints>** which will save setpoints for the specific controller in a file to the hard drive and **<Restore Setpoints>** to restore previously saved setpoints. These functions are described on **page 24**.

## Configuring Unit Controllers

When you select a Unit Controller, the status screen for that controller will appear. The sample screen presented below is for a VCCX2 Controller.

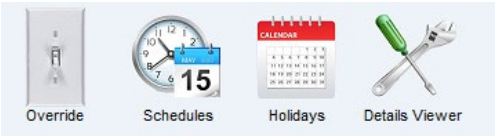



From each controller's status screen, you can access **<Setpoints>**. This option is found at the top of the screen. You must have a Level 3 passcode to access most of the setpoints.

# Override, Schedules, and Holiday Configuration

## Controller Override, Schedules, and Holiday Configuration

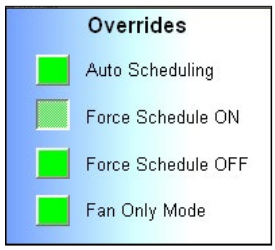
At the top of the status screen are the icons **<Override>**, **<Schedules>**, **<Holidays>**, and **<Details Viewer>**.




The **<Override>** icon overrides the current occupied/unoccupied operating mode. The **<Schedules>** icon accesses the weekly schedule and the **<Holidays>** icon accesses the holiday schedule. The **<Details Viewer>** icon provides a wide range of detailed data.

### Controller Overrides


If the controller supports it, you can override the schedule mode of operations by *clicking* on the **<Override>** icon. The *Overrides Window* will appear.




You can choose **Auto Scheduling, Force Schedule ON** or **Force Schedule OFF** or you can choose **Fan Only Mode** to force the Main Fan to operate without any cooling or heating being activated due to space temperature demands.

A scheduled force override will remain in effect until cancelled. To cancel an override, *select* the **Auto Scheduling** option.

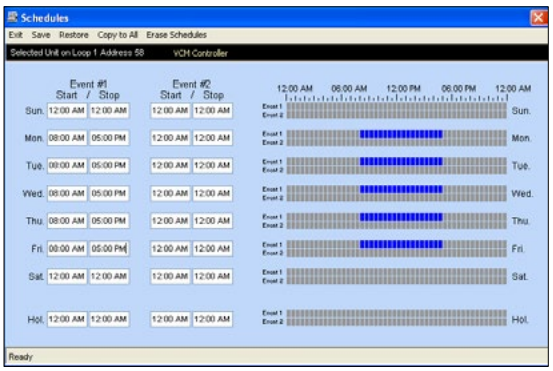
---

**NOTE:** Not all units support the **Fan Only Mode**. In these cases, it will not be displayed as an option.

---


### Controller Weekly Time Schedules

When you *select* the **<Schedules>** icon, the *Schedules Window* will appear.




The *Schedules Window* in the example shows an 8:00 AM to 5:00 PM operating schedule for Monday through Friday. The bars on the right side of the screen give a visual indication of the selected time periods.

---

**NOTE:** Some controllers do not have two start/stop events per day. The *Schedules Window* will reflect this by having the Event #2 columns grayed out.

---

When you enter a time in any field, you must designate AM or PM and *press* **<ENTER>**.

---

**NOTE:** You MUST *press* **<ENTER>** to have the system accept your entry. If you do not *press* **<ENTER>**, the bar graph to the right will either not display or will not change.

---

The holiday start and stop times will override the standard operating hours. The holidays themselves are scheduled in the *Holiday Schedule Window* described on **page 23**.

To eliminate a schedule from any event, simply *type* a zero and *press* **<ENTER>** for the Start and Stop time for that day. The screen will display 12:00 AM for both the Start and Stop times, indicating that the equipment will not activate for that day.

If you want the controller to run the full 24 hours, *type* a zero and *press* **<ENTER>** to set 12:00 AM for the Start time and type 11:59 PM and *press* **<ENTER>** for the Stop time. This ensures the full 24-hour period will remain in the occupied mode without interruption.

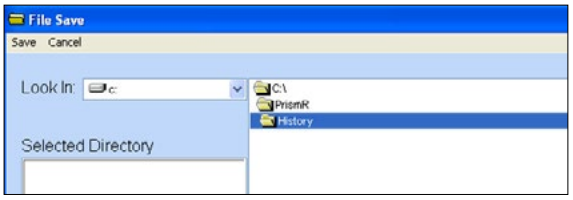
*Select* **<Save>** to save your schedule. *Select* **<Restore>** to restore a previously saved schedule. *Select* **<Erase Schedules>** to completely erase the schedule appearing in the window.

---

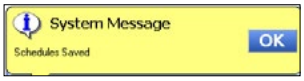
**WARNING: <Erase Schedules>** will clear ALL entered stop/start times, so use with caution.

---

To save the weekly time schedule, click **<Save>**. The *File Save Window* will appear. Give the file a name and click **<Save>**.



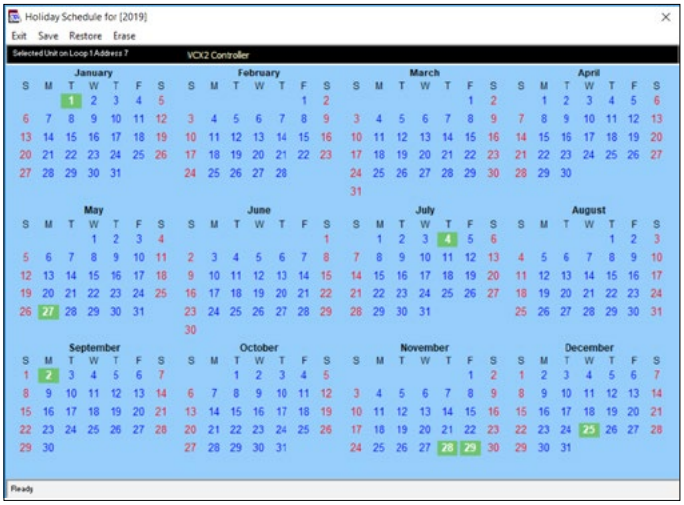

The following message will pop up if the schedule is saved successfully. *Click* **<OK>** to make it disappear.



*Click* **<Restore>** to restore any previously saved schedule from a previously saved file. If you try to load a schedule from one type of controller to a different type of controller, Prism 2 will display an error message and prevent you from making this mistake.

### Controller Holidays Schedule


To access the controller's Holiday scheduling, *click* the **<Holidays>** icon. The *Holiday Schedule Window* will appear:




If your job-site has days during the year when you need to override the standard operating hours to accommodate holidays or other special events, you can use this window to select the holidays. *Click* on the date to highlight it and tag it as a holiday.

Days selected as holidays are indicated with a green background and white text.

There are 14 holiday periods available for each year. These holiday periods can span a single day or they can span weeks or even months. The key to extended holiday periods is to make sure you select every single day, including weekends, between the start of the holiday and the end of the holiday.

For example, if you want to schedule a summer break, you need only schedule one holiday period to define a two or three month break from operating in the occupied mode. Of course, the equipment will still operate with its unoccupied settings.

Every defined holiday uses the same Holiday operating schedule programmed in the *Week Schedules Window*.

As in the case with Week Schedules, you can select the **<Erase>** button to clear all selected holidays at one time. Refer to Week Schedules for directions on **<Save>**, and **<Restore>**. Holidays can only be programmed for the current year. You cannot program holidays before the next year occurs. Holidays do not automatically adjust for the new year, so you will need to access this screen after the new year and make necessary adjustments to the days that float, such as Memorial Day.

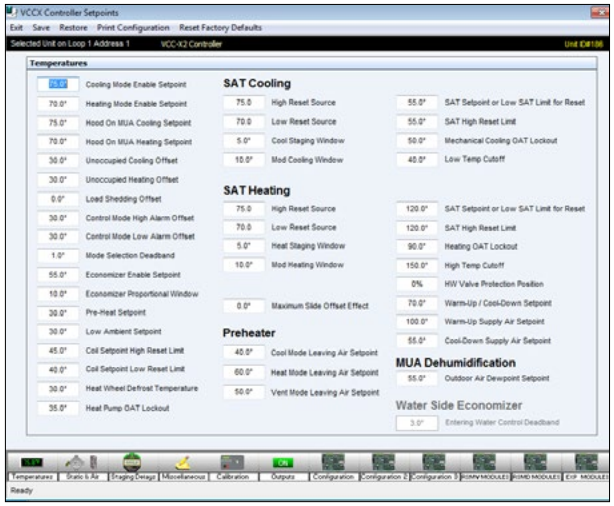
### Details Viewer


To access controller details, *click* the **<Details>** icon. The *Details Window* will appear. This window will display the Controller's input and output readings as well as any expansion modules attached to the controller. From this screen, you can also select **<View Refrigeration Module>** to access its details.


At the top of the window, you have a wide range of functions to choose from: Setpoints, Trendlogs, Print, Cancel Force Modes, Air Balance, Staging Times, Relay Run Times, Module Charting, Expansion Charting, and Reset Factory Defaults.

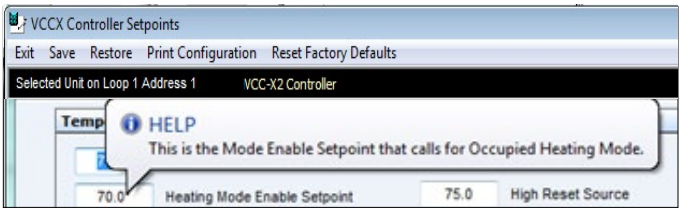
## Controller Setpoints


*Select* **<Setpoints>** from the *Top Menu Bar* of any controller status screen. A series of Setpoint buttons will appear at the bottom of the displayed setpoint screen. Not all controllers have the same button selections along the bottom due to different control schemes. A sample setpoint screen is shown below. Other examples of setpoint screens start on **page 38** in the Appendix.



## Controller Setpoints

If you position the cursor over the top of a setpoint box, a *Help Window* will pop up indicating how that setpoint is used by the controller.




If you enter a setpoint that is either too high or too low or if you don't have Level 3 access, Prism 2 will not accept the new value and will restore the previous value in that field.

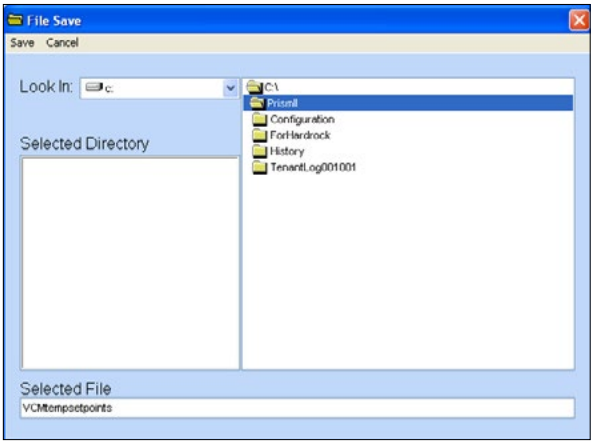
Setpoints are contained in groups that are closely related, such as Temperatures or Staging Delays. When you select a button along the bottom of the screen, the corresponding list of setpoints will be displayed.

From each setpoint screen, you can *select* **<Save>**, **<Restore>**, **<Print Configurations>**, and **<Reset Factory Defaults>**.

**NOTE: <Save>**, **<Restore>**, and **<Reset Factory Defaults>** saves, restores, and copies over ALL of the setpoints for a controller, not only those on a single setpoint screen.

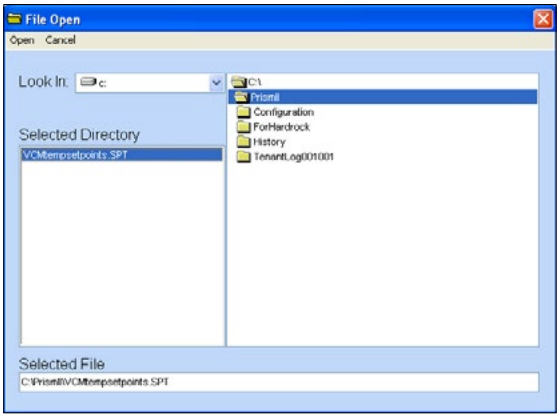
### Save Setpoints

You can save all setpoints from any controller to a file on your computer for use in restoring or for copying to another specific controller. *Select* **<Save>** from the *Top Menu Bar* of the designated setpoint screen. Give the setpoint file a name and *click* **<Save>**.




### Restore Setpoints

To re-load these setpoints from the file you created, *select* **<Restore>** from the *Top Menu Bar* of the designated setpoint screen. The only difference you will see from the above screen is the title of File Open instead of File Save. Find your designated setpoint file from the list of folders, and *click* **<Open>**.




If you try to load setpoints from one type of controller to a different type of controller, Prism 2 will display an error message and prevent you from making this mistake.

### Restore Factory Defaults

To restore factory configuration and setpoint defaults for the selected unit controller, *select* **<Restore Factory Defaults>** from the *Top Menu Bar* of the designated setpoint screen.

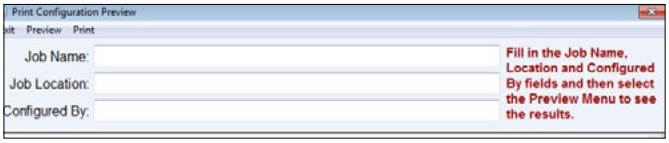
**WARNING:** AAON does not assume any responsibility or liability due to misuse or misunderstanding of this feature. Restore Factory Defaults wipes out ALL current configuration and setpoints for a single controller.

The following message will display:

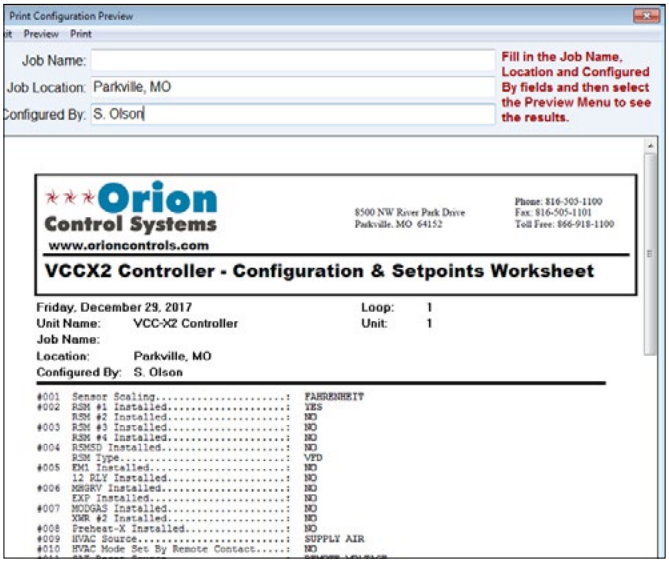

*Select* **<Yes>** to clear all configuration and settings and restore factory defaults. *Select* **<No>** to cancel this operation.

### Print Configurations

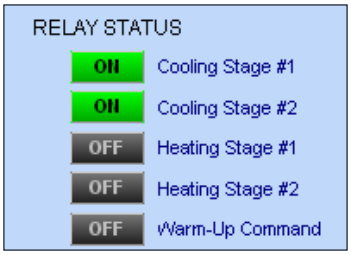
To print all configurations and setpoints for the selected unit controller, *select* **<Print Configurations>** from the *Top Menu Bar* of the designated setpoint screen. The *Print Configuration Preview Window* will appear.




Fill out the fields at the top of the window - Job Name, Job Location, and Configured By, and then *select* **<Preview>** to see the results. Below is an example. *Select* **<Print>** to print the results.




### Output Overrides




Some controllers allow you to manually override a relay or analog output to any condition you wish. You must exercise caution when forcing outputs, because you have the potential to damage equipment by short-cycling compressors or performing other undesired control settings.


If your controller supports relay overrides, clicking on a relay indicator will cause a box similar to the one at left to appear.

*Clicking* on an analog override will display the *Override Voltage Box* as shown below.


Any voltage between 0.0 and 10.0 volts is considered valid and will force the output to that value. To cancel an override, *click* **<Cancel Override>** or enter a -1.0 value for the Override Voltage.

Prism 2 will maintain relay and analog output overrides for as long as communications are open to your system. If you close communications or the Prism 2 program, the overrides will time-out after 10 minutes.

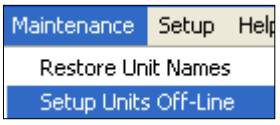
If you set an override from your computer, no one else will be able to change that override from their computer. Only the initiating party can clear or change an override condition.

### Refreshing the Screen

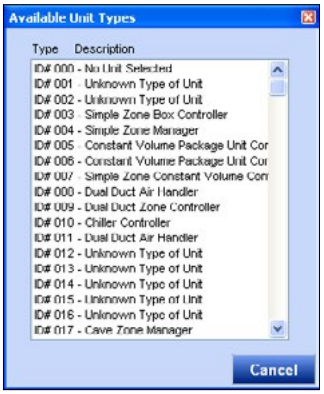
Once you have configured a unit, you may have to *click* the **<Refresh>** button found on Prism 2's *Top Toolbar* to have the new configuration appear on the unit's status screen.

## Configuring Units Off-Line

You can set up units off-line in the event you cannot access controllers. For example, you can set the controllers up in your office prior to going to a job-site and save the entered setpoints to a file. When you get to the job-site, you simply *click* **<Restore>** in each controller's setpoint screen and open the saved setpoints file.




To configure units off-line, *click* **<Setup Units Off-Line>** from the **Maintenance Menu**.




*Click* anywhere in the *Unit Selection Window* on the *Main Screen* and the *Available Unit Types Window* will pop up. Use the scroll bar to scroll through and select the unit type that you want to configure. When you *click* on the unit type, the unit controller's setpoint screen will appear. Enter all setpoints and save the file, giving it a unique file name associated with a location at your job-site, e.g. Bill's office.

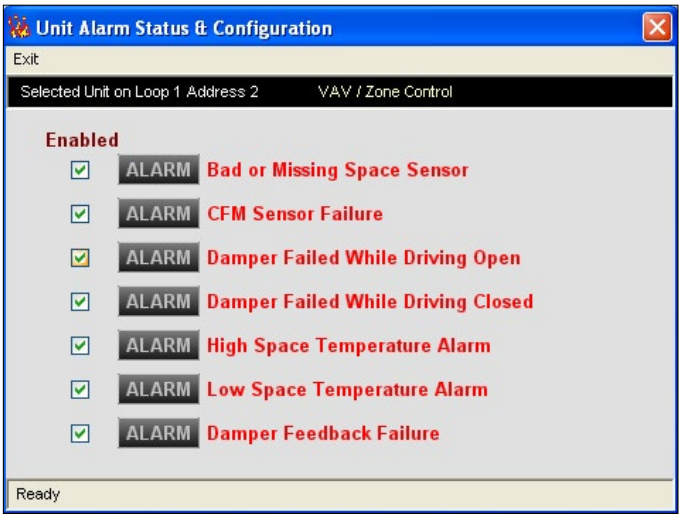
## Configuring Alarms

# Step 9: Configuring Unit Alarms


You can configure which alarms can generate call-outs or e-mails by accessing the *Unit Alarm Screen* for each controller on your system. The *Unit Alarm Screen* is accessed from each controller's status screen by *clicking* the **<ALARM>** button. This button will be a dull red and display **<No Alarms>** when there are no alarms present or will be bright red and display **<ALARM>** if active alarms exist.

*Click* the **<ALARM>** button when bright red or the **<No Alarms>** button when dull red. The *Unit Alarm Status & Configuration Screen* will appear.

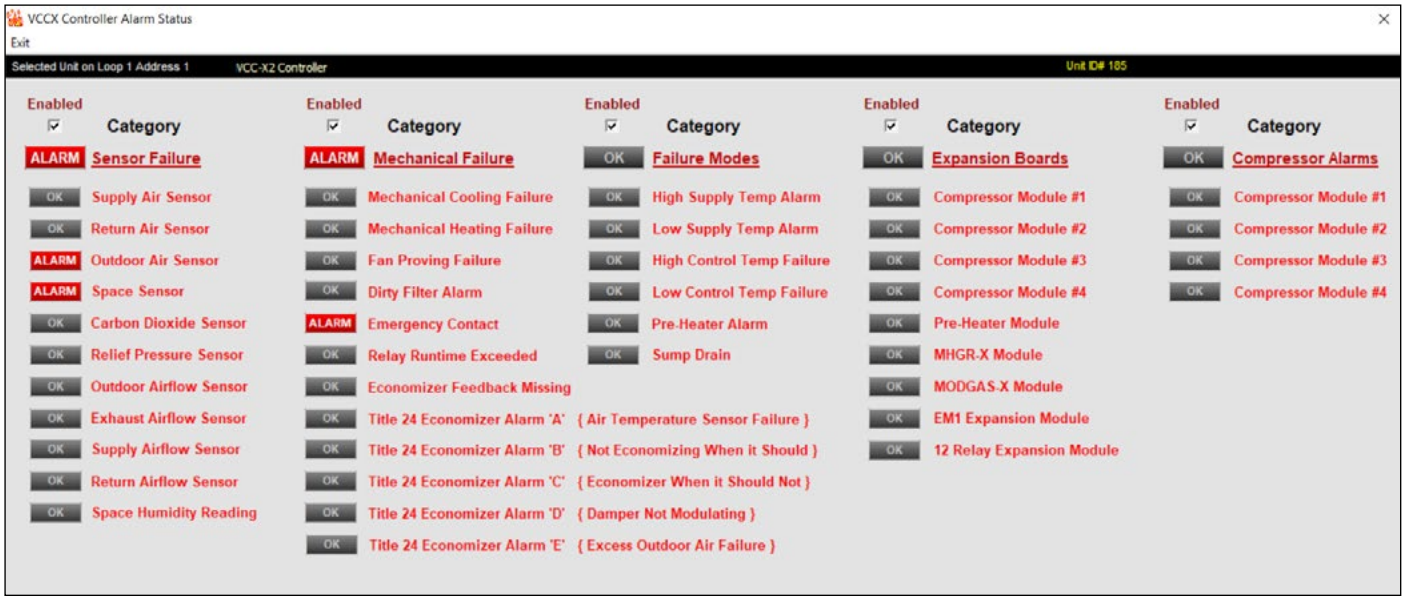
Below are samples of the *Unit Alarm Status & Configuration Screen*. This screen also displays the Alarm Status for each enabled alarm. Each individual **<ALARM>** button will be bright red if an alarm exists and will be gray if no alarm exists or if the alarm is not enabled.




You must *check* the box associated with each alarm in order for the system to alert you of each alarm. You must also select **Alarm Polling Enabled** in the *Job Sites Window* in order for Prism 2 to actively poll for alarms.

If there is an active alarm condition, it will be indicated by the **<ALARM>** button located in the upper right corner of the *Prism 2 Main Screen*.


You can always view all active alarm conditions for a specific controller from its individual status screen, but only alarms designated for notification will appear on the *Prism 2 Main Screen* alarm display. The Alarm display is described in detail in the section "Alarm Polling" on **page 27**.



## Step 10: Alarm Polling

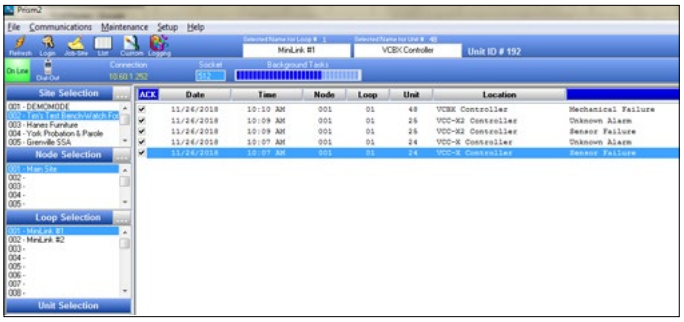
**NOTE:** This section applies to Prism 2 Alarm Polling only. For System Manager Touch Screen Alarm Polling, see **Appendix C**.

Prism 2 can be configured to poll the system consistently for alarm information reported by each installed controller. For the system to poll for alarms, you must have **Alarm Polling Enabled** checked in the *Job Sites Window*.

Only the alarms that have been previously configured on the *Unit Alarm Status & Configuration Screen* for each type of controller will activate an alarm in this display window. Alarms not configured will only be reported on the *Unit Alarm Status & Configuration Screen* accessed from each individual controller's status screen.

Whenever Prism 2 indicates it is **On Line**, it will poll the system every 30 seconds for new alarm conditions. If any new alarms are detected on the system, the Alarm Indicator located in the upper right corner of the *Prism 2 Main Screen* will turn red and display **<ALARM>**.


When you *click* on the alarm indicator, the *Alarm Display* will appear on the *Main Screen* with a list of the new alarms and any old alarms still left in the alarm log file.



Alarms are displayed with the newest ones appearing at the top of the list. This sample list shows two old alarms that have been acknowledged with a checkmark and numerous alarms that have not been acknowledged yet.

The Date and Time of the alarm are recorded when Prism 2 actually polls and receives the alarm condition. It does not accurately reflect when the alarm occurred unless Prism 2 is left running continuously and can log the alarms as they occur.

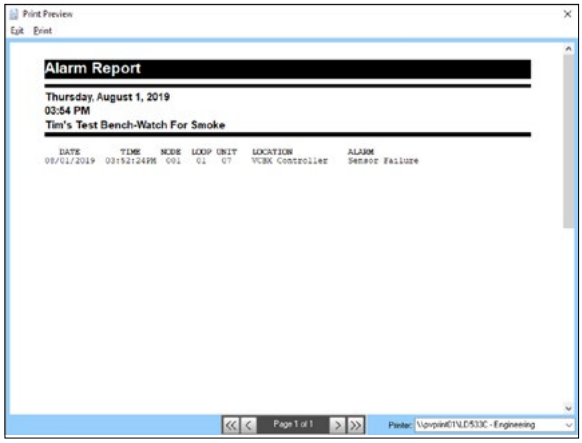
Acknowledging the alarms lets the system know you have been notified and are fixing the problem.

To acknowledge all alarms, *click* the blue **<ACK>** button. A checkmark will appear in front of each alarm.

### Printing and Deleting Alarms

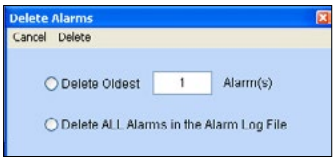

For printing and deletion options, *click* on **<ALARM>** at the top right in the alarms list next to the **<EXIT>** icon, and the following menu will appear:


To print just the alarms that have come in today, *select* the first option **<Print Today's Alarms>**. You should see a *Print Preview Window* like the one shown below.




The printer you wish to send it to can be selected in the lower right corner.

If you *select* **<Print All Alarms>**, all old and new alarms that still exist in the alarm log will be sent to the *Print Preview Window* for printing.




To keep the alarm log file from growing too large, you can delete specified alarms from the log by *selecting* **<Select Alarms to Delete>**. The following window will appear.

**NOTE:** Only a Level 3 user can delete alarms.

You can delete the oldest alarms that no longer need to be maintained, or you can delete the entire alarm log file and start fresh. Once you make your selection, *click* **<Delete>**.

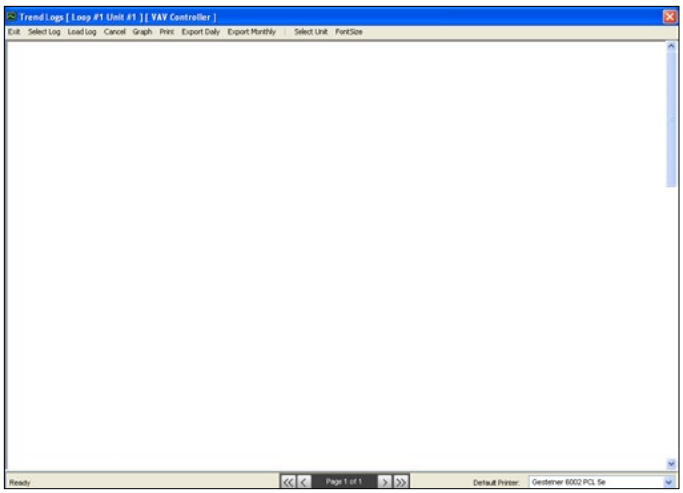
You should periodically delete logged alarms because the file can grow quite large and can slow down the system.

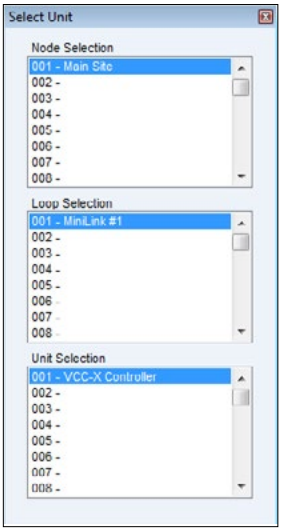
## Step 11: Trend Logging and Printing


Before you select this option, you should close any other open status, setpoint, or diagnostic screens. To display trend log data, from the *Prism 2 Main Screen Top Toolbar*, *click* the **<Logging>** button. **NOTE:** If you have transferred your Prism 2 files onto a new computer, you must first open each unit's *Details Screen* accessed from the unit's *Status Screen* in order for the trend log function to work properly. Then *click* the **<Trendlogs>** button at the top of the *Details Screen*.

**NOTE:** You can also view a unit's trend logs by *clicking* the **<Trendlogs>** button from a unit's *Details Screen.*

The *Trend Logs Screen* will open. It will be empty until you select a menu option. The name of the controller you were viewing before you accessed this screen will be displayed in the *Title Bar*. If you weren't viewing a controller, the first unit on the first loop would be designated in the *Title Bar*.



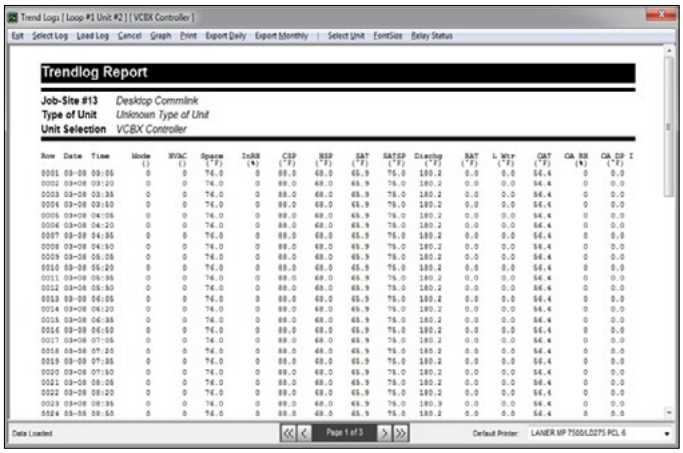




You can change the controller by *clicking* **<Select Unit>**. The *Select Unit Dialog Box* will appear as displayed at left.

*Highlight* the Node, Loop, and Unit of the desired Controller. The Unit Address and Name should now appear in the *Trend Logs Screen Title Bar*.

Once you have selected the desired unit, you can either load the most recent log data by *selecting* **<Load Log>** or load previously stored logs by *selecting* **<Select Log>**.

To view recent data, *click* **<Load Log>.** The Trend Log Report will load with the most recent log data. An example of a Trend Log Report appears as follows:

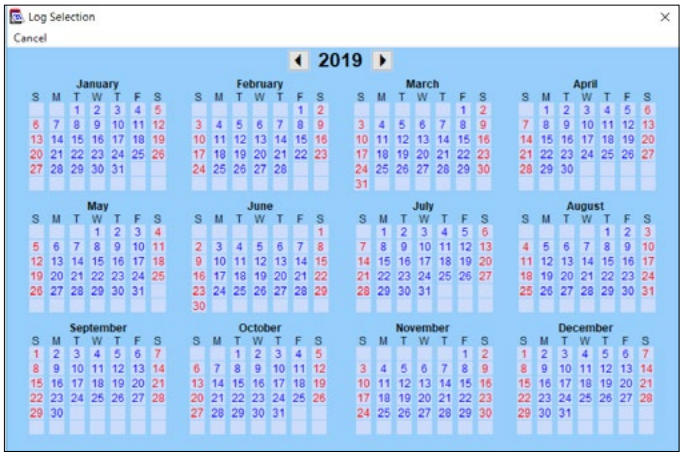



Please note that there may be more than one page. You can scroll through pages with the page scroll at the bottom of the screen.

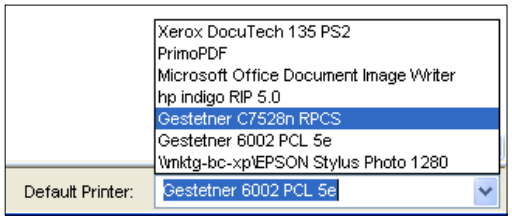
To view previously saved log files, *click* **<Select Log>**. The *Log Selection Window* will appear. Prism 2 will search the folder of the specified unit to determine which days of the year a log has been saved. If you are auto-logging, every day of the year will display in red.

From this screen you can see highlighted days of the year (represented with a red background) that indicate a log was saved for this controller on that day. *Click* on any highlighted date to load the data.

To print a log, first *select* a printer from the *Default Printer Selection Dialog Box* located at the bottom right of the *Trend Logs Screen* and then *click* **<Print>**. Every time you open Prism 2, this printer selection will be the default printer until you change it.



**NOTE:** If you select a printer from this list box, it will become the default printer for all programs on your computer unless you select a different printer in Prism 2 or from the Windows® Control Panel.

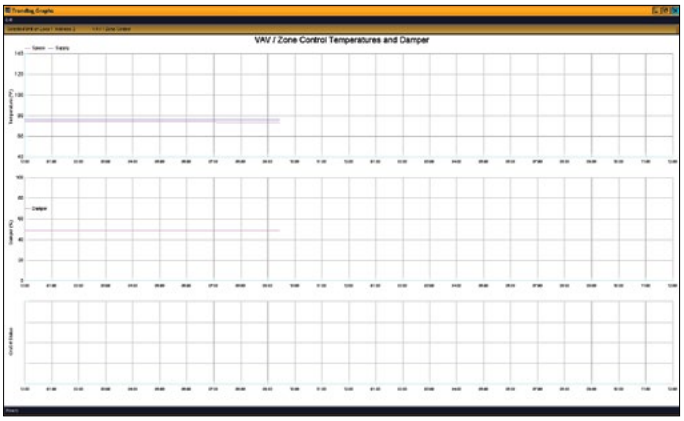



To graph data from a log, *click* **<Graph>**. The *Log Selection Window* will appear again. *Select* a highlighted date to graph. The *Trendlog Graph Screen* will fill up your entire computer display. *Click* **<Exit>** to return to the *Trend Log Screen*.

**NOTE:** Some controllers don't have the ability to create line charts of the logged data. If this is the case, Prism 2 will display one or more message boxes informing you that it cannot display line graphs.

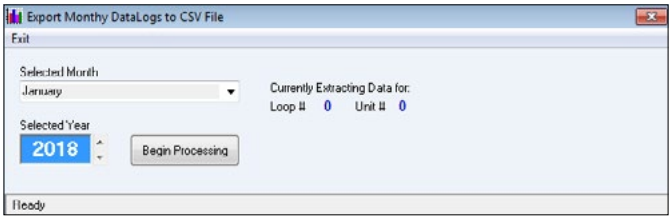
Below is a sample line graph display from a Variable Air Volume Box Controller.

If you would like to export a day's worth or month's worth of log data for further analysis not provided in Prism 2, *select* either **<Export Daily>** or **<Export Monthly>**. Prism 2 will create a comma delimited .CSV file that can be opened in most spreadsheet and database applications.

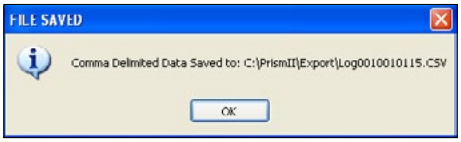



If you *select* **<Export Daily>**, the process is done automatically. Prism 2 will display the file name and location created for the exported data.

If you *select* **<Export Monthly>**, the following dialog box will appear:



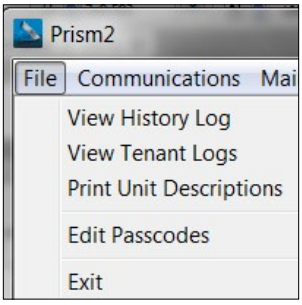

*Select* a month from the **Selected Month** drop down box, *select* a year from the **Selected Year** scroll box, and then *click* **<Begin Processing>**. When the processing is done, the message DONE will appear in the bottom status bar of the window. Your data will be saved in your Prism 2 directory within a new subfolder titled Export.



# Viewing History and Tenant Logs

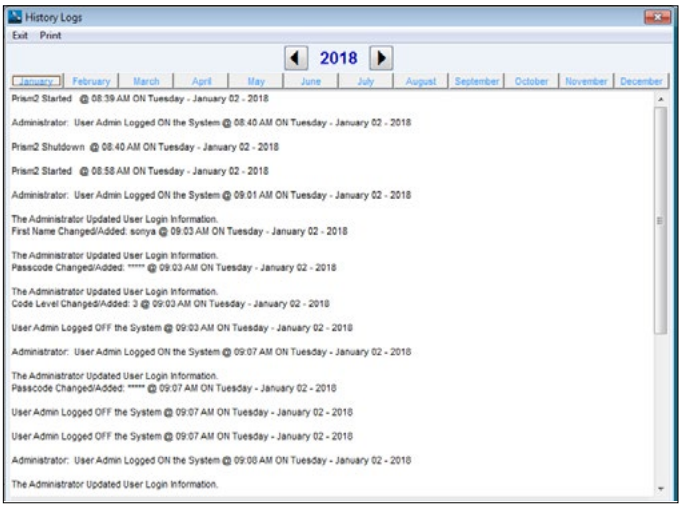
## File Menu

There are four options located under the **File Menu**—**<View History Log>**, **<View Tenant Logs>**, **<Print Unit Descriptions>**, and **<Edit Passcodes>**. The **<Edit Passcodes>** function is described on **page 9**.




## View History Log

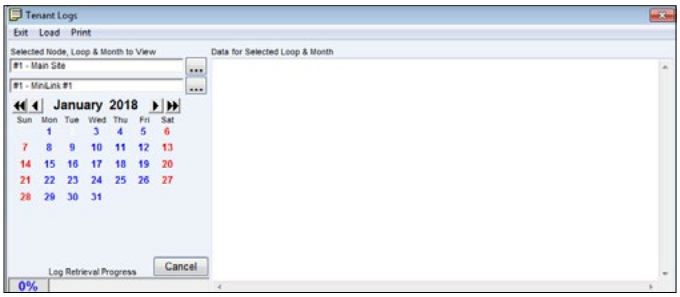
Prism 2 tracks most user interactions such as logging on and off, changing setpoints, acknowledging alarms, etc. These are selected and displayed on the *History Logs Screen* when you *click* **<View History Log>** from the **File Menu** and choose a month and year:




History Logs are encrypted and cannot be viewed or modified by other programs. A permanent monthly record is maintained, and new files are created each year so that logs from previous years can still be viewed at any point in time.

## View Tenant Logs

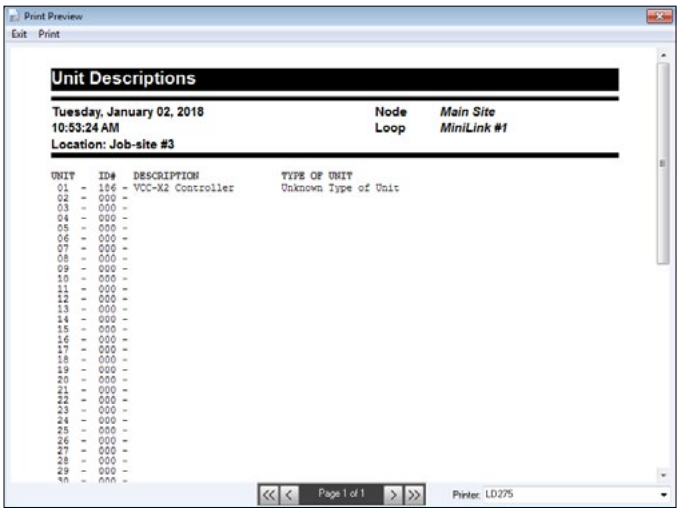
To view tenant logs for a selected loop and month, *click* **<View Tenant Logs>** from the **File Menu**. You must *click* **<Load>** for the data to post in the empty window.




To print the logs, *select* **<Print>**.

## Print Unit Descriptions

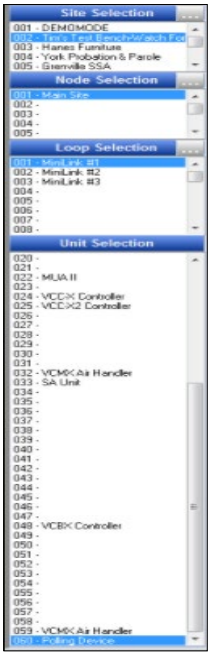
To obtain a hard copy of installed units and their descriptions, *click* **<Print Unit Descriptions>** from the **File Menu**. The *Print Preview Screen* will appear, allowing you to preview the printout before actually sending it to the printer. Only loops with installed units will be presented for printing.



## Step 12: Tenant Override Logging

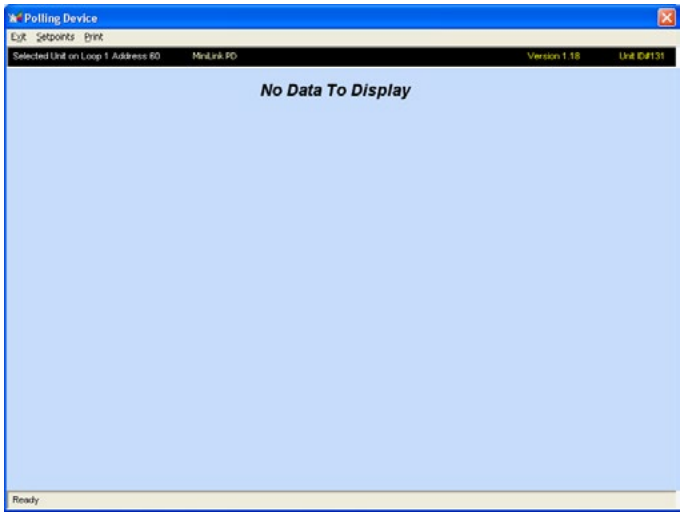
This is an optional configuration that allows a building owner to log the amount of time per month that selected controllers on a loop have been put into the Unoccupied Override Mode. From this information, tenants can be billed for additional energy usage beyond normal Occupied operation.

In order to set up Tenant Override Logging to work with the System Manager TS, you must have a CommLink and MiniLink Polling Device installed on your system. The following procedure must be done for the MiniLink Polling Device on each loop.

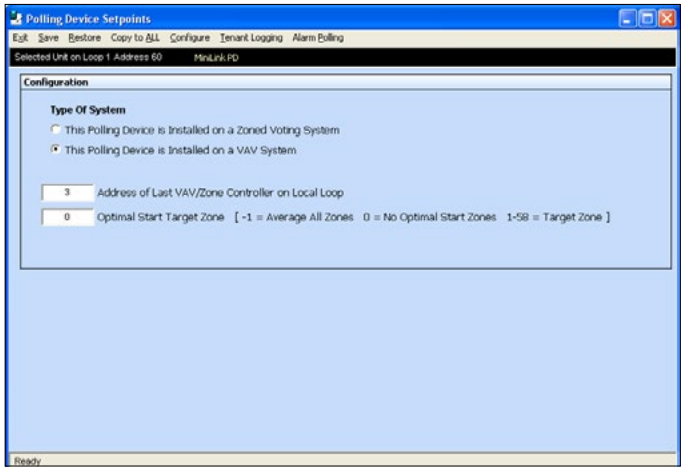



In the *Loop Selection Window* of the *Prism 2 Main Screen, select* the loop where your MiniLink Polling Device is located. Then, in the *Unit Selection Window scroll down* to Address 60 - MiniLink PD and click once on your selection.

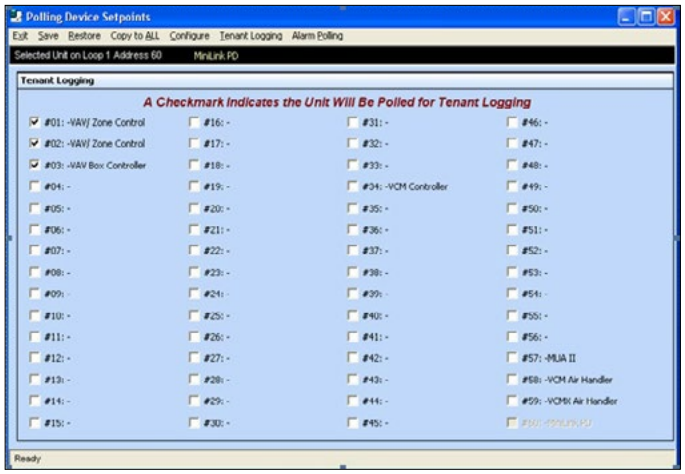
The *Polling Device Window* will appear.




*Click* **<Setpoints>** at the top of the screen. The *Polling Device Setpoints Window* will appear.




*Click* the **<Tenant Logging>** option at the top far right of the *Polling Device Setpoints Window*. The *Tenant Logging Window* will appear.



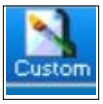

In the *Tenant Logging Window*, *click* the box to the left of each controller to choose tenant logging for that controller. A check mark in the box designates that the unit will be polled for Tenant Logging.

## Step 13: Creating Custom Screens

*Once all units have been detected and named and the system is up and running, you can begin creating your own custom status screens using the built-in Graphics Editor.*

You can create simple floor-plans, summary screens, and even screens containing an equipment photograph with temperatures overlaid on the equipment.

Not all status fields on the standard status screens are available on custom screens. But you can place temperatures, damper positions, carbon dioxide, and other similar types of readings. You can also add an alarm indicator for specified units. Some items that cannot be displayed are occupied/unoccupied modes, fan status, or any other binary style of data.



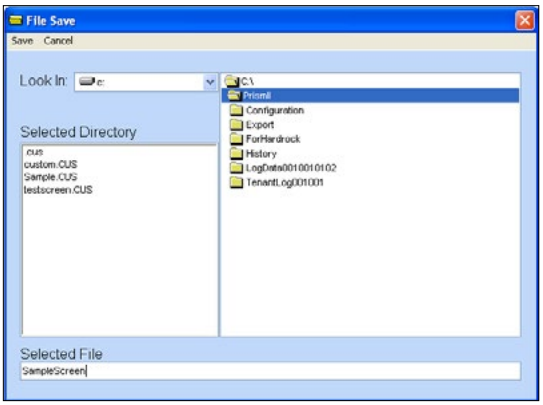

To access Custom Screens, *click* **<Custom>** on the *Prism 2 Main Screen Top Toolbar*. You must have a Level 3 passcode to access this item.


From the *Custom Screens Window's* **File Menu** you can start new custom screens, edit existing screens, or open a custom screen for viewing live data.

To start a new screen, *click* **<New Screen>** from the **File Menu**.

Selecting **<New Screen>** will clear any old screen data if any exists or will refresh the memory to begin a new screen. Before you start, it's a good idea to create a filename for the screen you are about to create.

*Click* **<Save Screen>** from the **File Menu** to open the *File Save Window*.




In the example above, you can see we gave the screen the filename SampleScreen in the **Selected File** box. This sample screen will be saved in the main Prism 2 directory once you *click* **<Save>**. **<Open Screen>** defaults to the main Prism directory, so if you save your file to a different folder or drive, you will have to remember where you saved it.

At the top of the *Custom Screens Window* is the Placement Toolbar.

To see a text message overview of a button's function, *hold* the mouse cursor over a button without clicking.

Following is a quick overview of each Placement Toolbar button's function and when it should be used.

**Align Left**: Use this button to align a group of selected text or data boxes with the left edge of the left most selected item.

**Align Right**: Use this button to align a group of selected text or data boxes with the right edge of the right most selected item.

**Align Tops**: Use this button to align a group of selected text or data boxes with the top edge of the uppermost selected item.

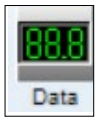
**Align Bottoms:** Use this button to align a group of selected text or data boxes with the bottom edge of the lowermost selected item.

**Equal Vertical Space**: Use this button to equalize the vertical spacing between a group of selected text or data boxes. Boxes are equally spaced between the uppermost and lowermost selected items.

**Equal Horizontal Space**: Use this button to equalize the horizontal spacing between a group of selected text or data boxes. Boxes are equally spaced between the left most and right most selected items.

**Equal Height**: Use this button to make all selected items the same height as the uppermost and left most selected item.

**Equal Width**: Use this button to make all selected items the same width as the uppermost and left most selected item.




**Place Data**: Use this button to place a new data field on the screen. New data fields are always placed in the upper left corner of the screen and you will need to move them to the desired location. If you place several data fields at one time, they will overlay on top of each other until you drag them apart for placement.


**Place Text:** Use this button to place a text field on the screen. As with the data fields, these will always be initially placed in the upper left corner. You will need to move them to the desired location.


**Place Jump**: Place a Jump button on your custom screen if you want to directly jump to other custom screens from this screen. You can place a Jump button on any of those screens to jump back to this originating screen.


**Place Image**: Use this button to select and load a graphic image onto the background of your custom screen.


**Background Color**: If you are not placing any background pictures, use this button to select a background color for your custom screen.

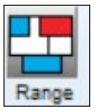

**Edit Bitmap**: Use this button to edit the loaded graphic image if it is in a format that is readable by the Microsoft® Paint program.


**Cut or Delete Item**: If you placed a text or data field by mistake, you can delete it from the screen with this button.


**Trash**: Use this button to clear the screen completely of all items.

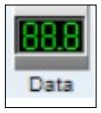

**Font**: Use this button to edit and format text.


**Point/Edit Data**: Use this button to edit and format data.




**Range/Edit Data**: Use this button to select a temperature range for colorizing a floorplan.

## Creating a sample screen

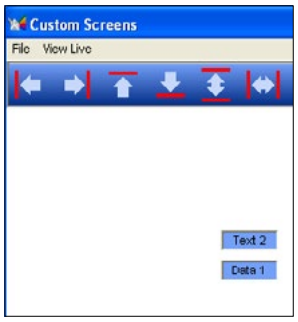



*Click* the **<Place Data>** button.


A new data field labeled **Data 1** will appear in the upper left corner of the screen.

You can *left-click* the box, *hold* the mouse button down, and *drag* it to a new location.


Now *click* on the **<Place Text>** button to place a text field on the screen.

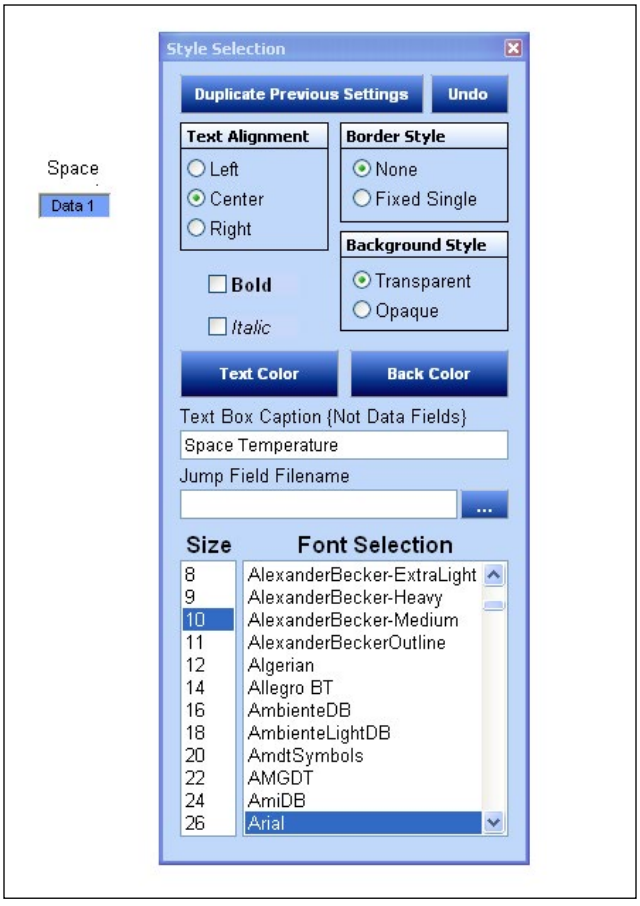



*Move* the text field above the data box the same way you moved the data field. Your screen should now look like the one shown at left.

Let's say you want a Space Temperature data field and want the text box to identify it. The next step is to change the text in the Text Box and also its appearance to identify the data file.


*Click* the box labeled **Text 2** and then *click* the **<Edit Text>** button.

The *Style Selection Window* will appear. This window allows you to change the appearance and the actual text in the Text Box. Make the selections shown in the example.

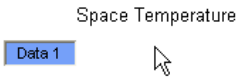


## Save Screen and View Live Screen

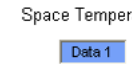
You should have changed the appearance of the text in the text box and changed the text to read Space Temperature. You will notice that only the word **Space** can be seen. You need to re-size the text box so that both words appear.

*Right-click* on the word **Space**. The text box will change to yellow and drag handles will appear.

Keep *holding* the right mouse button down and *drag* the text box so that it is large enough to contain the words **Space Temperature**. Now *click* your mouse outside of the text box and the yellow appearance will disappear.




Now that the text box is correctly sized, *left-click* on it and *drag* it to the left to center it on top of the **Data 1** box.

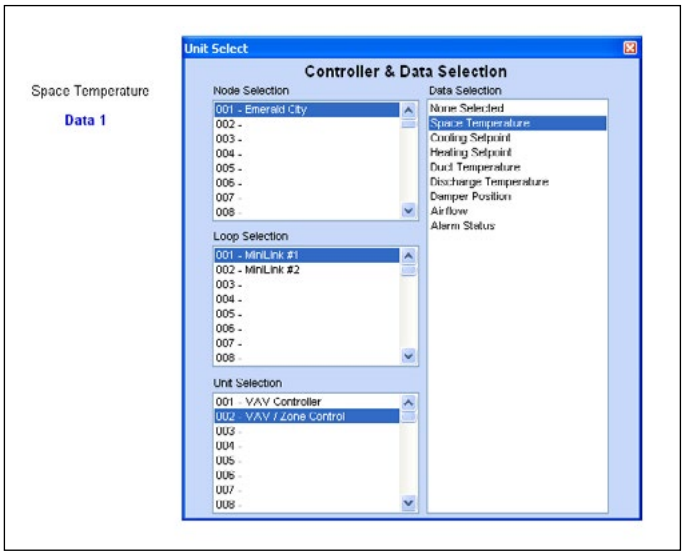



Now format the **Data 1** box to remove the border and background color. Use a bold font and change the text color to blue (or any desired color) to indicate a data field.


Now you need to assign a data point to the **Data 1** box so that the program knows which controller to read the Space Temperature from.


*Click* on the **Data 1** box and then *click* the **<Edit Data>** button.

The *Unit Select Window* will appear. Remember, you must have previously performed a Search For Units or manually configured units before this function will work properly.




In the example above, the second Controller on Loop #1 along with the Space Temperature data point is selected. Once the data point is selected, this window will automatically close. If you re-open this window on a previously defined data box, it will show the selected unit and data point.

Now that you have formatted your text and data box and assigned a data point, you should save the file and then test it to see if live data actually appears.

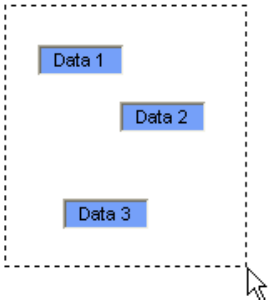
*Click* **<Save Screen>** from the **File Menu** to save this custom screen. Next, *click* **<View Live>** to activate the *File Open Window* so that you can select which custom screen to view. *Reselect* this SampleCustom.CUS screen file.


If you are **On Line** and connected to your system, you should now see live data appear from the selected controller as shown at left.

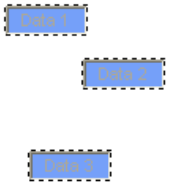
You can *left-click* on any active data field displaying live data and be taken to the status screen for the controller. When you close the status screen, you will automatically return to the previous custom screen you had open.

## Miscellaneous Edit Functions

The following is a quick overview of some of the other editing buttons you did not use in the creation of your first sample screen.




The alignment and sizing buttons require selection of multiple text and data fields. Selecting multiple items is as simple as *left-clicking* in the uppermost and leftmost position you want to select and then *dragging* the outline box around the controls you want selected before *releasing* the mouse button.



Once you *release* the button, the selected text will be gray and the fields will be surrounded by dashed lines.

Now you can align all three boxes to the left or right, space them equally, or even drag all three to a new location if you *click* and *hold* inside the original outline you made to select these three fields.

**NOTE:** The program always aligns items with the top left most item no matter which alignment option you choose.

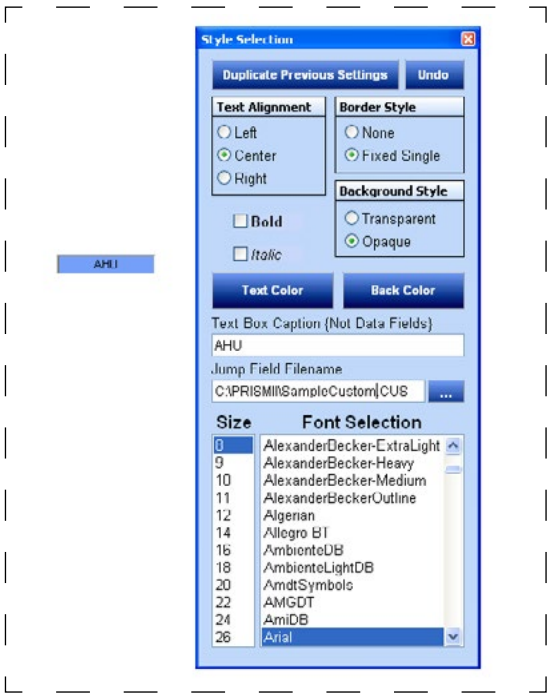
Once you have finished aligning, sizing, or moving these controls, you can *deselect* them by *clicking* anywhere on the outside of the original box you outlined to select the fields.

## Placing a Jump Field

Let's say you have built a custom screen of space temperatures from several zone controllers and you would like to jump to another floor plan or maybe to an *Air Handler Screen* for the unit that services these zones.


*Click* the **<Place Jump>** button to place a jump box in your custom screen. *Left-click* on the jump box and then *click* the **<Edit Text>** button to select the jump field filename in the *Style Selection Window*.


In the example that follows, a Jump button was created called AHU, and whenever it is selected, the program will jump to a file called SampleScreen.CUS. In this manner, you can link floor plans or campuses or equipment in logical groups and access them with a single button click instead of manually selecting the filename from the *File Open Window*.




In the SampleScreen.CUS screen and each preceding screen, you would want to create a Jump button to jump back to the first screen and so on.

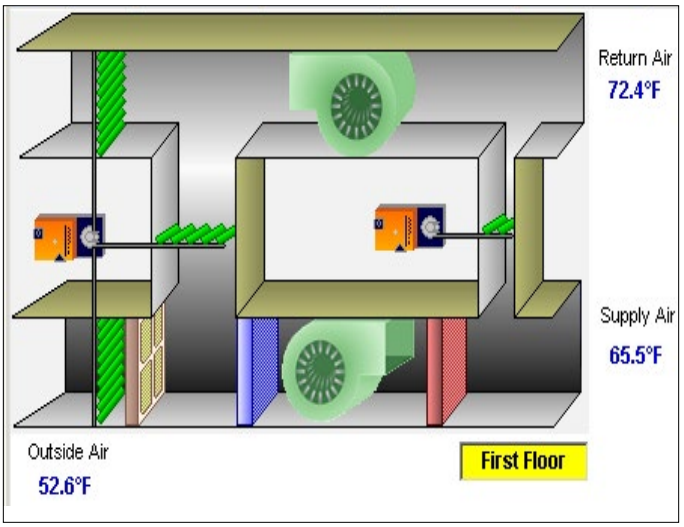

## Placing an Image

If you want graphics displayed along with the data and text, *click* the **<Place Image>** button to launch a *File Open Window* and load a graphic onto the form. The file format is limited to BMPs, GIFs, TIFFs, JPEGs, and PNGs.

Prism 2 always places the graphic in the upper left corner of the custom screen, so if you have a small graphic, you may want to edit it and make it larger so that the graphic appears more centered on the screen resolution you are currently using.


To edit the graphic, *click* the **<Edit Bitmap>** button to launch the Windows® Paint program or use your own graphics program and then reload the graphic when you are finished.

The sample screen that follows shows a bitmap in the background with three data fields, three text fields, and one Jump button **<First Floor>** placed so that you can jump back to the custom screen that you originated from.

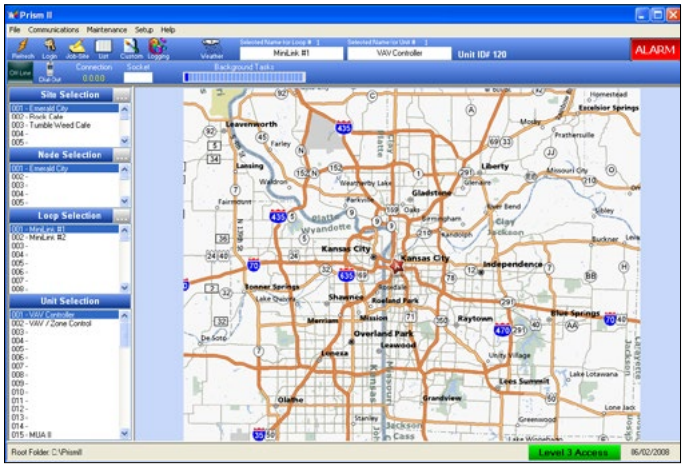



## Main Screen Image Hot Spot Selection

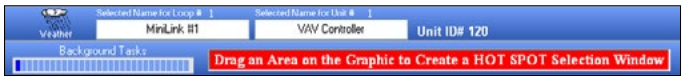
To immediately access different job sites or custom screens, an Easy Access Hot Spot can be created for each job-site on Prism 2's *Main Screen* image.

You can associate a custom screen with a job-site in the *Job Sites Window's* **Custom Screen** field and then you can create a link or hot spot on the *Prism 2 Main Screen* to automatically access that job-site's custom screen.

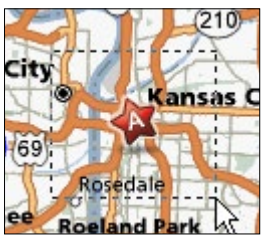
From the *Prism 2 Main Screen*, *right-click* anywhere inside the main screen area. In our example, we have a map of Kansas City as our Main Screen Image.



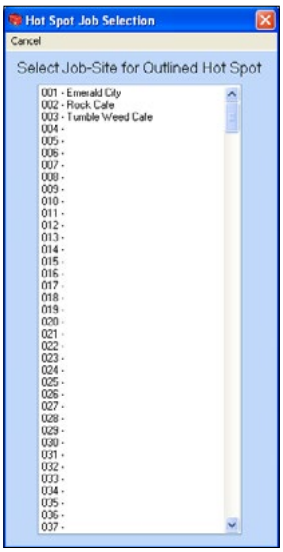

The message, "Drag an Area on the Graphic to create a HOT SPOT Selection Window" will appear in red in the *Lower Toolbar*.




To select the whole image, *position* the mouse in the upper left corner of the image, *hold* the left mouse button down, and *drag* the selection box to the lower right corner. In our example, we will select a small area surrounding the star that indicates a job-site location on the map.




As you can see, the dashed lines create a border around the star, making this the only area on the map currently selected as the Easy Access Hot Spot. Once you release the left mouse button, the *Hot Spot Job Selection Window* will appear.

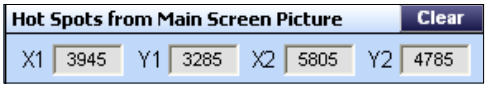



*Click* on the job-site you wish to be associated with this hot spot. As soon as you click the job-site, the window will close.

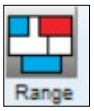
Multiple Hot Spots can be created on the Main Screen Image, and each hot spot can be associated with any defined job-site listed in the *Hot Spot Job Selection Window*.

In the future, all you need to do to access your job-site is to *click* where you placed its hot spot on the Main Screen Image.

To clear a Hot Spot associated with a job-site, open the *Job Sites Window* for that job-site and *click* the **<Clear>** button in the **Hot Spots for Main Screen Picture** field.

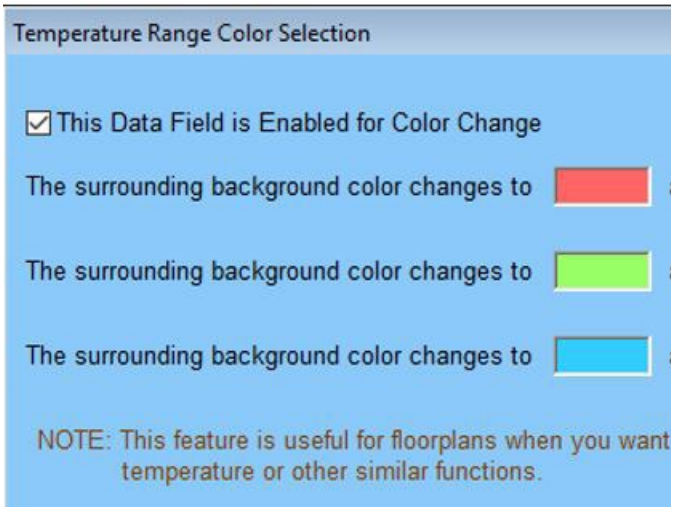



## Adding a Temperature Range



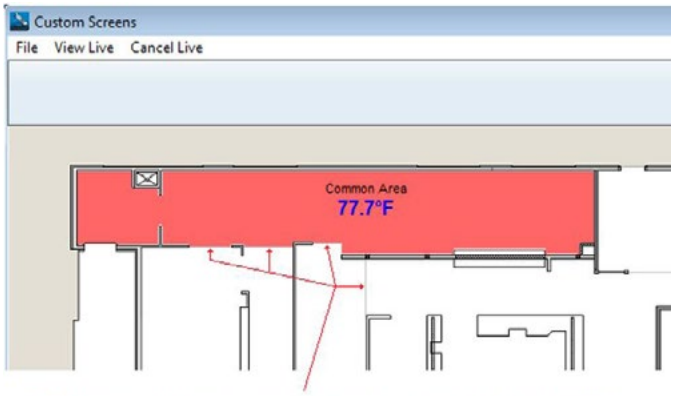

You can place a floorplan on the custom screen and designate areas that change colors based on temperature, pressures, etc. to indicate an area is in range or above or below the normal range.

The Range/Edit button will open the following window to allow you to edit the range of values that indicate which color should be displayed.




The selected data field, in this case the Common Area, will turn the space red if it gets too warm.

The space will turn green if it is between the limits, and it will turn blue if it gets too cool.



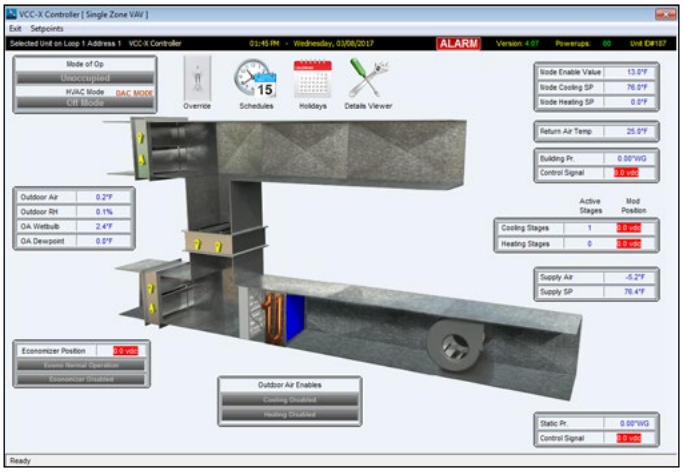

NOTE: You must divide the separate rooms with a contrasting color to the background. In this case a light gray line was used in the doorways to limit the colorization due to values out of range.

# APPENDIX A - SCREEN EXAMPLES

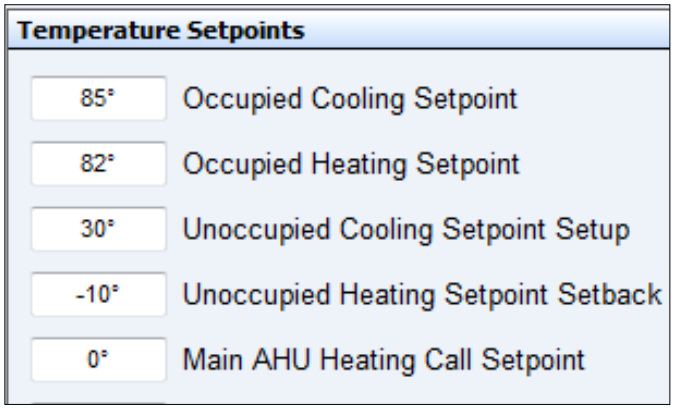
## Status and Setpoint Screen Examples

*Zone Controller Status Screen:*


*VCCX2 Controller Status Screen:*

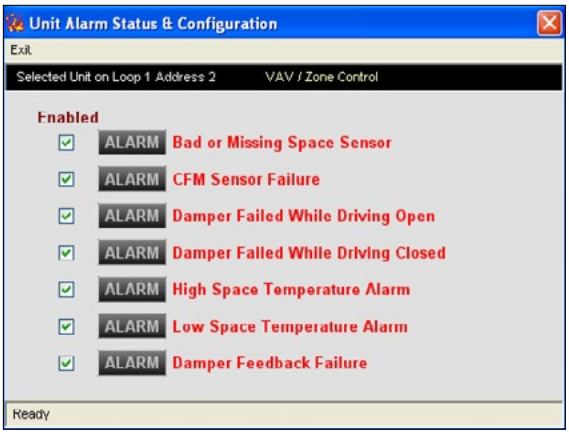



*Zone Controller Temperature Setpoints Screen:*




*VCCX2 Controller Temperature Setpoints:*


*Zone Controller Alarm Status and Configuration Screen:*

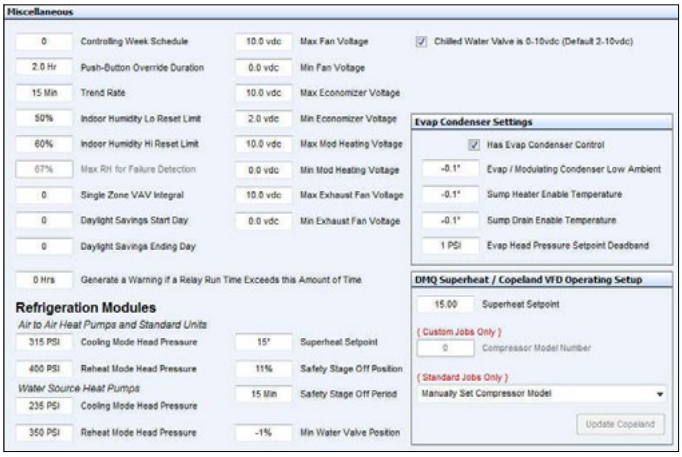



*VCCX2 Controller Alarm Status and Configuration Screen:*

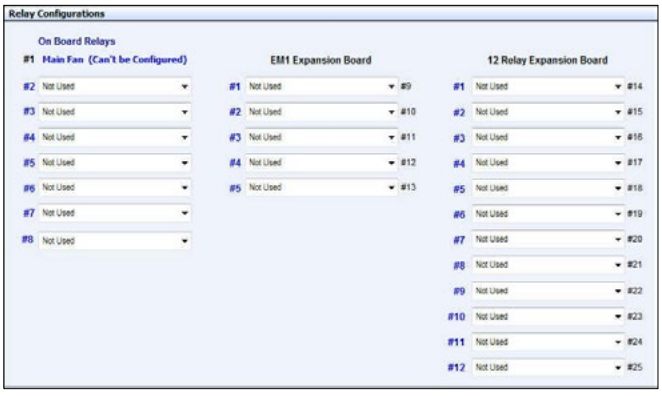
## Status and Setpoint Screen Examples

### *VCCX2 Controller Staging Delays and Timeouts Setpoints:*

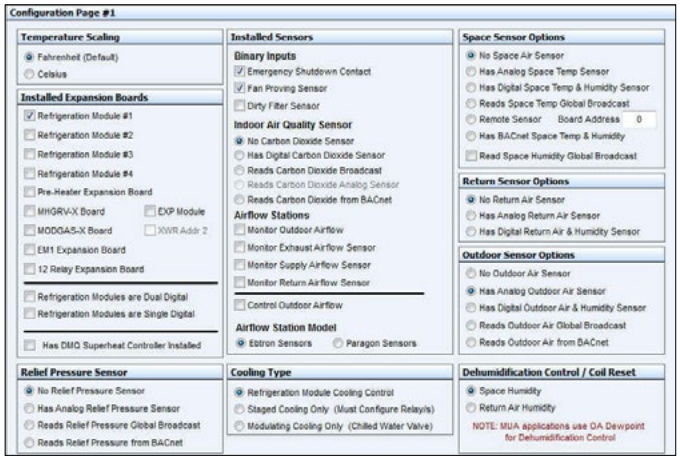

### *VCCX2 Controller Miscellaneous Setpoints:*



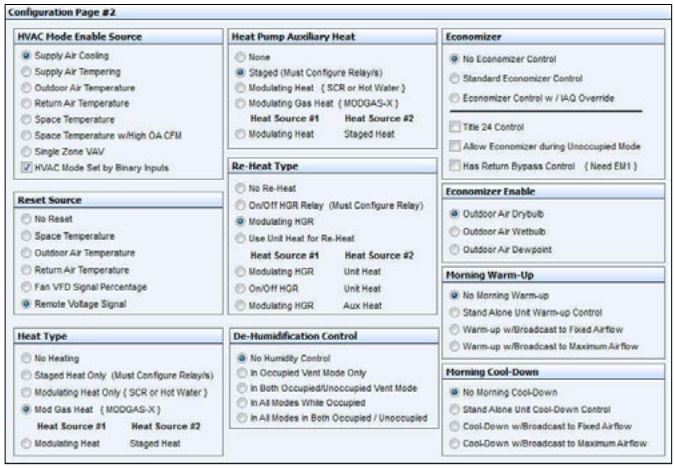

### *VCCX2 Controller Relay Configurations:*



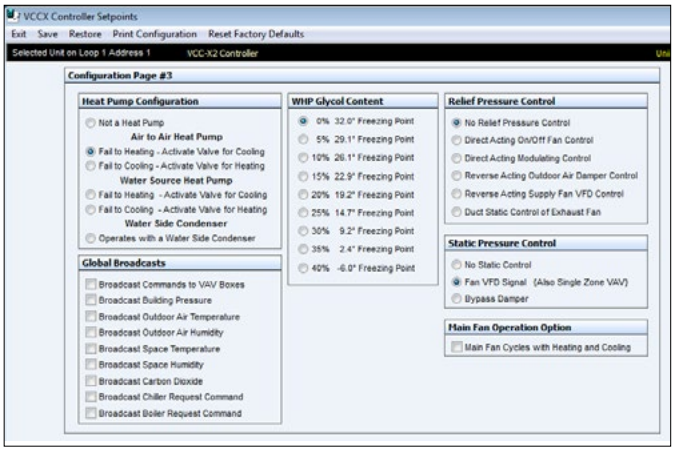

### *VCCX2 Controller Configuration Setpoints - Page 1:*




### *VCCX2 Controller Configuration Setpoints - Page 2:*




### *VCCX2 Controller Configuration Setpoints - Page 3:*



# DEMOMODE Setup and Operation

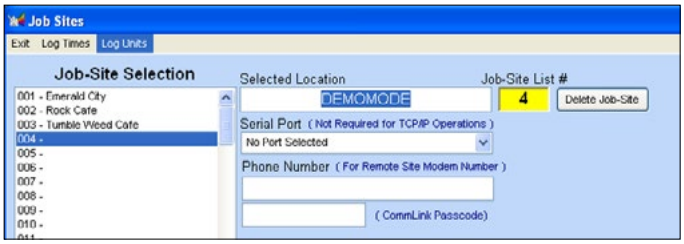
## Downloaded DEMOMODE Setup and Operation

DEMOMODE is a set of files that allow you to view samples of controller status and setpoint screens without having to connect to a live system. You may want to be able to demo the Prism 2 program to a customer, for example.

The DEMOMODE files are available for download from the AAON website under Software. DEMOMODE is individualized for each of our control systems.

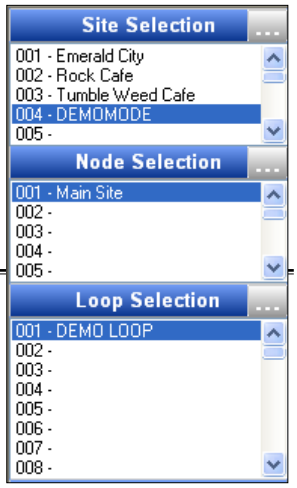
**Step 1:** When you download the DEMOMODE files, make sure you copy the files into the Configuration subfolder in your main Prism 2 directory.

**Step 2:** To run DEMOMODE, simply *select* an empty job-site location in your Prism 2's *Job Sites Window* and *type* in DEMOMODE just as it is - one word, all caps - in the **Selected Location** field and *press* **<ENTER>**.




The DEMOMODE files will automatically configure one of each type of controller included for viewing. No communications will occur, but all status and setpoint screens related to that unit will be available for viewing.

**Step 3**: *Exit* the *Job Sites Window* and *click* on DEMOMODE in the *Site Selection Window* of the *Prism 2 Main Screen*. Once you do this, the controllers available for viewing will appear in the *Unit Selection Window*.



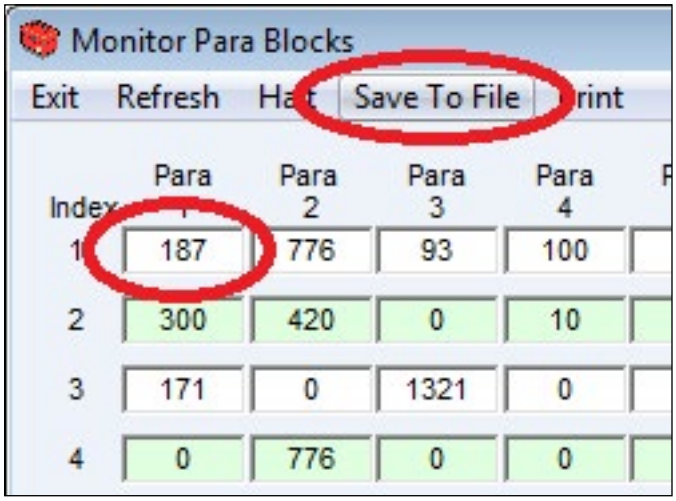

**NOTE:** Unless you are using your computer strictly for DEMOMODE, you should not use the first job-site location for DEMOMODE unless you don't mind the inconvenience of having to manually select a different job-site location each time you start Prism 2.

## Custom DEMOMODE Setup and Operation

The following is the process for creating your own demo screens for any type of controller. The screens will automatically be added to the DEMOMODE files.

**Step 1:** Login with the Administrator or Level 4 username and passcode. Connect Prism 2 to the desired type of controller you need a demo screen for. *Select* **<Communications>**, **<Monitor Parablocks>**. The example below shows connection to a VCC-X Controller screen ID 187 as shown in the red circle under Para Block #1 Index #1.

**Step 2:** *Select* the **<Save to File>** menu as shown in the red circle. There is now a demo screen for that unit controller.




**Step 3**: To run DEMOMODE, simply *select* an empty job-site location in your Prism 2's *Job Sites Window* and *type* in DEMOMODE, just as it is - one word, all caps - in the **Selected Location** field and *press* **<ENTER>**.

**Step 4**: *Exit* the *Job Sites Window* and *click* on DEMOMODE in the *Site Selection Window* of the *Prism 2 Main Screen*. Once you do this, the controller demo screen will appear in the *Unit Selection Window*.

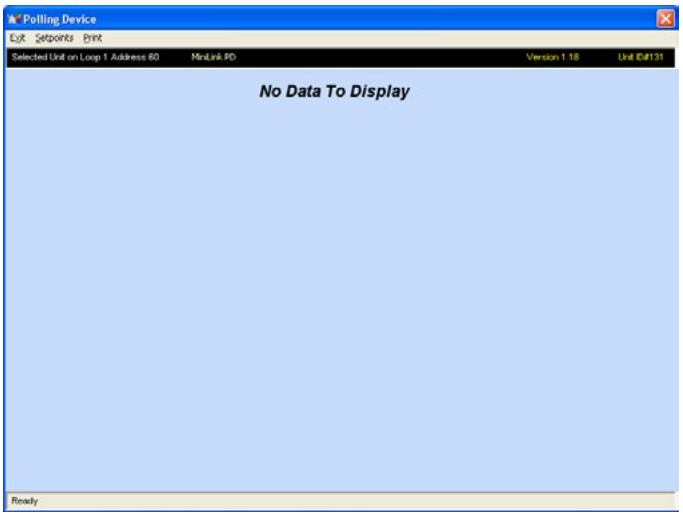
# Setting Up Alarm Polling for the System Manager TS

**NOTE:** This section applies to System Manager Touch Screen Alarm Polling only. For Prism 2 Alarm Polling on **page 27**.

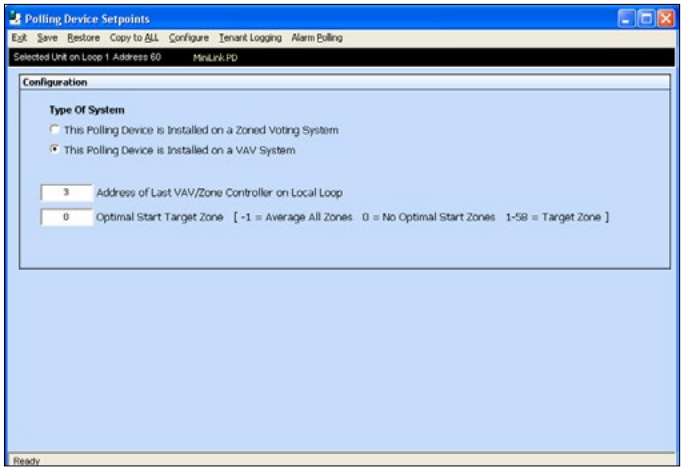
Using Prism 2 to set up Alarm Polling for the System Manager TS, you must have a CommLink and MiniLink Polling Device installed on your system. The following procedure must be done for the MiniLink Polling Device on each loop.


In the *Loop Selection Window* of the *Prism 2 Main Screen, select* the loop where your MiniLink Polling Device is located. Then, in the *Unit Selection Window scroll down* to Address 60 - MiniLink PD and click once on your selection.

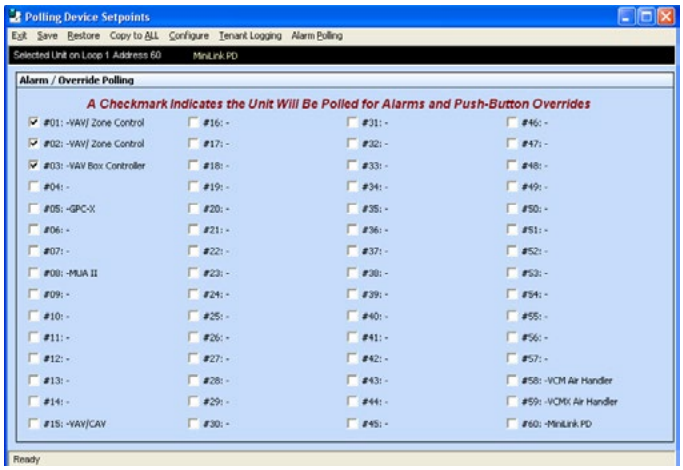
The *Polling Device Window* will appear.




*Click* **<Setpoints>** at the top of the screen. The *Polling Device Setpoints Window* will appear.




*Click* the **<Alarm Polling>** option at the top far right of the *Polling Device Setpoints Window*. The *Alarm / Override Polling Window* will appear.




In the *Alarm / Override Polling Window*, *click* the box to the left of each controller to choose alarm polling and push-button overrides for that controller. A check mark in the box designates alarm polling/push-button override.

## Updating Internal Software with Prism 2 Version 4.5.0 and higher

You can use Prism 2 version 4.5.0 and higher to update the internal software of the following Unit Controllers, E-BUS Modules, and Devices:

- VCCX2 Controller
- VCC-X Controller
- VCB-X Controller
- PT-Link II BACnet3®
- PT-Link II BACnet4®
- PT-Link II LON-3®
- PT-Link II N2-3®
- PT-Link II N2-4®
- Modular Service Tool SD
- Modular System Manager SD
- MiniLink PD 5
- MODGAS-X
- MODGAS-X 10:1
- MODGAS-XWR
- MODGAS-XWR-1
- MGHRV-X
- PREHEAT-X
- PREHEAT-X-EXT
- RSMD
- RSMSD
- RSMV
- RSMV-HP

You can find complete instructions and the most recent software for updating internal software with Prism 2 on the AAON Controls Support website—www.aaon.com/controlstechsupport

## A



## B



## C

## C-E



## D



## E

## F



## G

## H



## I



## J



## K



## L



## M

## N



## O



## P

## R



## S

## T



## U



## V



## W

## W-Z



## Z

| PRISM 2 TECHNICAL GUIDE | |
|---|---|
| **REVISION & DATE** | **CHANGE** |
| Rev. 01U, January 21, 2021 | Added note for Level 9 User Administrative Access on page 8. |
| Rev. 01U, January 21, 2021 | Replaced the instructions for the Prism 2 CD-ROM with instructions for the Prism 2 Flash Drive on page 5. |

# Prism 2 Technical Guide

## G019170 · Rev. 01U · 210121

**AAON Factory Technical Support: 918-382-6450**

**techsupport@aaon.com**

**AAON Controls Support: 866-918-1100**
**Monday through Friday, 7:00 AM to 5:00 PM central standard time.**

**NOTE:** Before calling Technical Support, please have the model and serial number of the unit available.

**PARTS:** For replacement parts please contact your local AAON Representative.

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