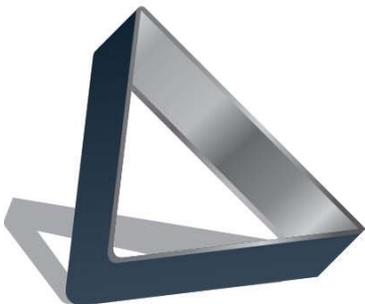

WattMaster
C O N T R O L S



WattMaster
PrismD

Graphical Interface
Technical Guide

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Features and System Requirements



PrismD is a complete Windows®-based graphical interface that allows you to interact with your DDC digital controls. The program provides standard, easy-to-understand status, setpoint, and configuration screens for each type of controller.

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

NOTE: This manual is written for a person with a working knowledge of Windows® 2000, Vista, 7, 8, or 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

PrismD provides a broad set of features:

- Easy to use
- On-site or TCP/IP communications
- User-programmable description for every piece of equipment
- Automatic retrieval of trend logs and export capability to spreadsheet and database programs
- Encrypted History Logs

System Requirements

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

Operating System

- Microsoft® Windows® 2000, Vista, 7, 8, or 10
NOTE: PrismD is not intended for a server/client environment.

Minimum Hardware

- Windows® compatible computer
- Pentium 2 GHz Processor (Pentium 4, 2 GHz or greater, Recommended)
- 1 GB RAM (or greater)
- 120 MB hard drive space
- X VGA (1024 x 768) adapter and monitor (1280 x 1024, Recommended)
- CommLink 5 for off-site or network applications
- Network card for TCP/IP connection when IP Module is used.

NOTE: The DDC Controller contains an on-board CommLink that can be used for stand-alone applications. For network applications, a CommLink 5 must be installed on your system, and if remote communications to the installation are required, an IP-Module (Ethernet) must also be installed. See the *IP Module Technical Guide* for remote communication details.

NOTE: The internal USB communications port of the DDC Controller uses a specialized driver that must be installed on your Windows® PC before communication to the device can be established. To install the USB Drivers, follow the instructions on the WattMaster Daikin Technical Support website - www.daikin.wattmaster.com.

NOTE: Your Windows® font size should be set for “Smaller - 100% (default)” found in the Control Panel under Display Settings. Having the font size set to Medium or Large may cause Prism’s graphics to display improperly. See the section, “Setting Your Screen Resolution” on **page 4**.

Software License

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

Support Information

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

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

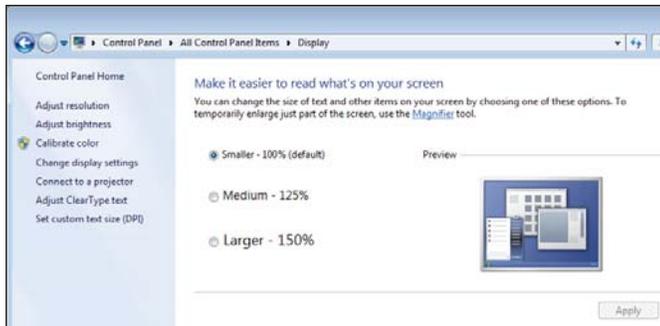
NOTE: WattMaster Controls Technical Support cannot troubleshoot firewalls, routers, and/or problems on a customer’s internal or external network. An IT professional may need to be consulted.

Step By Step Guide

Setting Your Screen Resolution

In order for Prism graphics to display properly on your computer screen, your screen resolution must be set to the default which is the small font. If it appears that your graphics are not aligning properly, verify your system's font size as follows (directions are for Windows 8):

Click on <start>, <Control Panel>, <Display>. The following screen will appear:



Select the radio button for “Smaller - 100% (default)” and click <Apply>. You will need to restart your computer 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.

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

User input is boldface and enclosed in quotation marks. For example, you would type the numbers 3333 when the directions tell you to *type* “3333.”

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.”

Step By Step Guide Map

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

Step 1: Installing PrismD—This section explains how to install the PrismD software, initiate communications, navigate the program, and enter and edit passcodes.

Step 2: Setting Up Job Sites—This section provides instructions for setting up each job site's name, port, or IP address.

Step 3: Configuring PrismD—This section describes how to have PrismD 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 4: Setting Up Communications—This section explains how to establish communications via TCP/IP connection through your CommLink.

Step 5: Searching for Installed Units—This sections explains how to perform a unit search per jobsite.

Step 6: Selecting and Renaming Loops and Units—This section explains how to select and rename loops and units.

Step 7: Configuring Units—This section describes how to configure controller setpoints and schedules.

Step 8: Viewing Unit Alarms—This section explains how to view alarms for individual controllers.

Step 9: Logging and Printing—This section explains how to load, view, and print trendlogs from individual controllers.

Step 10: Manual Logging—This section explains how to set-up manual logging for troubleshooting purposes.

Index—The index provides page numbers for easy reference to quickly find the information you need.

Step 1: Install PrismD Software & USB Drivers

Install PrismD Software

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

Step 2: *Open* your browser and access the Daikin tech support website (www.daikin.wattmaster.com). The PrismD program and instructions can be found near the top of the webpage.

Step 3: *Right-click* on the PrismD Logo. From the list in the window that appears, *select* “Save Link As” (or “Save Target As”). *Select* the C drive as your file destination and *click* <Save> to download the file to your computer.

Step 4: Locate the PrismD.zip file on the C drive and double-click on it to reveal the PrismD folder and its contents. A window indicating a security warning may appear depending on what version of Windows you have and 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 PrismD_X.X.exe file. This will allow WinZip self extractor to open and allow you to extract the PrismD program.

Step 5: *Select* the <Unzip> button to extract the files to your computer. *Click* on PrismD.exe to open the PrismD program. Note: To send the program shortcut to your desktop, *right-click* on the PrismD.exe file and *select* “Send to Desktop.”



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

Install USB Drivers

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

Step 2: *Open* your browser and access the tech support website.

Step 3: *Double-click* on the USB Drivers link to download the file. A message might appear that says the file might be dangerous. *Click* <Keep>. Extract or run (double-click) USB Driver Setup.exe. A security warning may appear depending on what version of Windows you have and 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 exe file. This will allow WinZip self extractor to open and allow you to extract the USB Drivers.

Step 4: Once you unzip the file, the *WattMaster USB Driver Installation Window* will appear. *Click* <Install>. This will unzip the driver installation files to C:\Temp\Wattmaster USB Drivers.

Step 5: *Click* your <Start> button and then *click*, <computer>.

Step 6: *Double-click* Local Disk (C:). Then *double-click* the Temp folder.

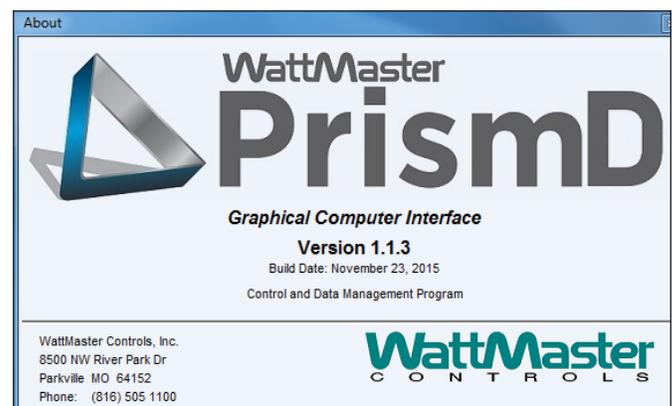
Step 7: *Double-click* the WattMaster USB Drivers folder to open it and then *double-click* the USBInstaller.exe program.

Step 8: *Click* <Begin Install> and the installation program will walk you through the rest of the steps. The program might prompt you to remove old USB drivers from your computer. *Click* <Yes> if so. Once installation is complete, you will need to reboot your computer to have the new settings take effect.

Step 9: With successful USB driver installation, you can now connect your USB device to your computer.

Verifying Successful PrismD Installation

Once you open the program, *click* the “Help” tab on at the top of the *PrismD Main Screen* and *click* <About>. The window below will appear, displaying the version you just installed.



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

Communications



Several of the operations available with PrismD require that communications be active. At the top of the *PrismD 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.

STEP 1: PRISMD INSTALLATION

PrismD Main Screen

PrismD Main Screen

When you first open PrismD, the *PrismD Main Screen* appears. (Figure 1). Initially, until you login with a valid user id and password, only the Refresh and Login icons will appear.

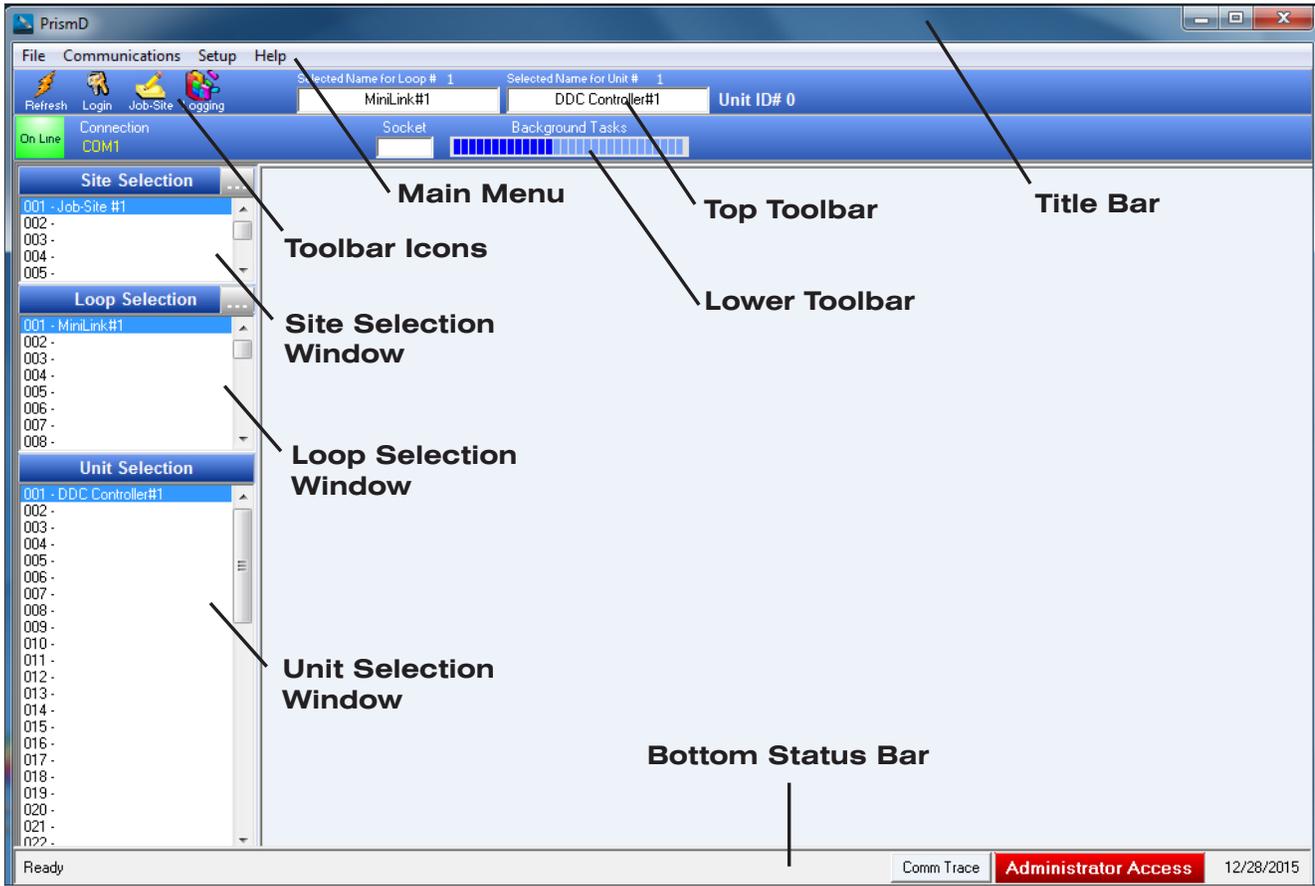


Figure 1: PrismD Main Screen

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

The *Top Toolbar* displays the Refresh, Login, Job-Site, and Logging icons, Selected Loop Name, Selected Unit, and Unit ID#.

The *Lower Toolbar* displays the On-Line/Off-Line button, Connection, Socket field, and Background Tasks Status bar.

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

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

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 *Security Center Window*, allowing each user to enter their user name and passcode to gain access to the system.
- Job-Site Selection and Setup Button - Opens the *Job Sites Window* where you enter job sites, serial port or comm port #, IP address, if applicable, and main screen display picture. You can enter 500 job sites, 60 loops, and 60 units per loop. Can only be accessed with the Administrator 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.

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 COM Port number or IP address of the current job site.
- Socket - Used for factory level support diagnostics.
- Background Tasks - When bars are full, 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.
- Comm Trace - This button only displays with Administrator Access and *clicking* on it opens the *Comm Trace Window*. The window displays all raw data packet requests and returns. The data is used by technical support when attempting to debug communications issues.
- Access Level - This button displays the access level—View Status Only, Level 1, 2, 3, Factory Access, or Administrator Access. 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.

STEP 1: PRISMD INSTALLATION

Entering Your User Name & Password

Entering Your User Name & Password

NOTE: There are six passcode levels. Level 0, Level 1, Level 2, Level 3, Level 4—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 PrismD, 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 PrismD Main Screen. The Login Window will appear.

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



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



Once you have logged in as Administrator, you should now change your Administrative User Name and Password and also add User Names and Passcodes for all users. See *Editing User Names and Passwords* on page 9.

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

The status message Level 1 Access, Level 2 Access, or Level 3 Access 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 *Configuring PrismD* on page 12.

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

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

Level 1

Level 1 users can view temperatures and change space temperature setpoints. The setpoint screens for Level 1 users are simplified. No changes to schedules or other settings can be made.

Level 2

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

Level 3

Level 3 users have system manager access and can change all setpoints and configurations, **but not** user names and passcodes. Level 3 users can also access force modes. This Level is normally reserved for qualified HVAC service personnel.

Level 4—Factory Level Access

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

Level 9—Administrator Access

Administrator Access is the only level that can Edit User Names and Passcodes. The default User Name is “admin” and the Password is “admin”. The defaults should be changed and recorded by the Administrator. If the Administrator forgets their login information, the currently programmed Level 1 to Level 3 users will still be able to access the system if they have been given clearance. If not, PrismD will be locked out to all users except for View Only Level. The Administrator will then need to call WattMaster Technical Support for instructions on how to restore operation.

Editing User Names & Passcodes

Editing User Names & Passcodes

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

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

From the *PrismD Main Menu*, click <Edit Passcodes> from the File Menu. 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 John S.

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 0, 1, 2, 3, 4, and 9. 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.

STEP 2: JOB-SITE SET-UP

Job-Site Set-Up

Step 2: Setting Up Job Sites

The second step in the PrismD Setup procedure is to program the specific job-site access settings and desired initial displays for each location. You must have Administrator access to access the Job Sites Window.

NOTE: Before setting up your job site(s), you need to first set up your CommLink 5 or IP module for network or remote communications and connect your Controllers properly or plug in your Controller to your computer using a USB cable if using the on-board CommLink for stand-alone programming. Please refer to the *CommLink 5 Technical Guide*, *IP Module Technical Guide*, and *DDC Controller Technical Guide* for proper set-up.



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

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

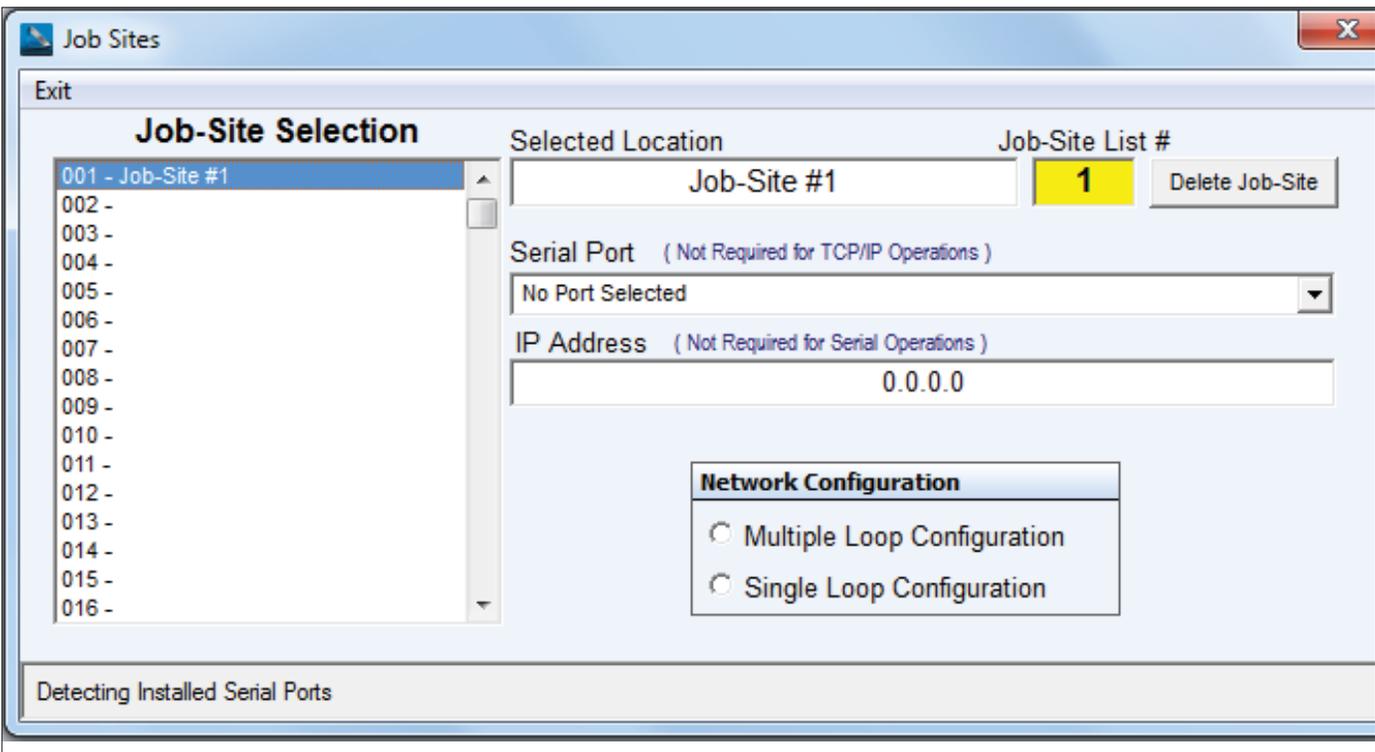


Figure 2: Job-Sites Window

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>.

Selected Location	Job-Site List #	
Emerald City	1	Delete Job-Site

Delete Job-Site

Job-Site List #	
1	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>.

Serial Port:

Serial Port (Not Required for TCP/IP Operations)
Communications Port (COM1)
IP Address (Not Required for Serial Operations)
0.0.0.0

TCP/IP—If you are using TCP/IP communications, leave the **Serial Port** field set at “No Port Selected” which is the default.

Serial or USB—If PrismD will be connecting directly to a CommLink 5 or to the DDC Controller’s on-board CommLink through its USB Port, *select* the port that you have connected your CommLink 5 or on-board CommLink connection to and *enter* 0 for the **IP Address** or *highlight* the current IP Address and *press* <Delete> to remove an existing IP Address.

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

IP Address

Serial Port (Not Required for TCP/IP Operations)
No Port Selected
IP Address (Not Required for Serial Operations)
10.0.0.0.XXX

If you are not using an Internet connection, *enter* 0 in this field and *press* <ENTER>. If using TCP/IP, *enter* the IP address of your CommLink 5 w/IP device and *press* <ENTER>.

NOTE: If you are using a crossover cable to connect your 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 IP Address identifies the TCP/IP address of the CommLink5 or CommLink 5 w/IP that you will be accessing for the selected job-site.

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

Network Configuration

Network Configuration
<input type="radio"/> Multiple Loop Configuration
<input type="radio"/> Single Loop Configuration

You must select the configuration of the CommLink 5 or on-board CommLink you have connected to your computer as this affects the settings of the CommLink itself.

Multiple Loop Configuration System contains MiniLinks that divide up the units across logical boundaries or contains more than 60 units. CommLink 5 must be set to Multi.

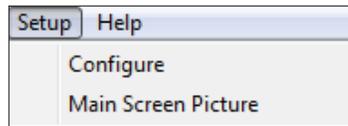
Single Loop Configuration Select this option if using the on-board CommLink. Select this option if the system contains 60 or fewer units that can exist on a single communications loop. CommLink 5 must be set to Single.

STEP 3: PRISMD CONFIGURATION

Configuring PrismD

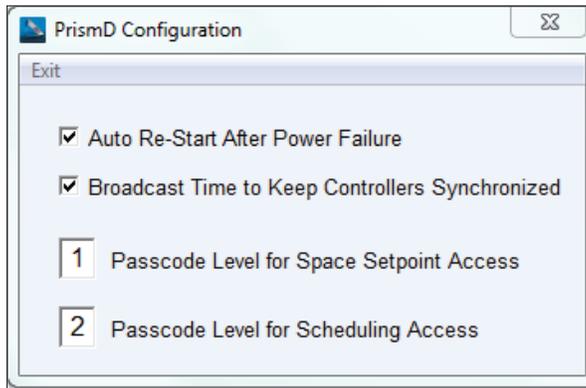
Step 3: Configuring PrismD

If your computer experiences a power outage, PrismD will not automatically restart without a few user settings to make this happen.



From the Setup Menu, click <Configure>.

The *PrismD Configuration Dialog Box* will appear.



Auto Re-Start After Power Failure

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

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

When the computer reboots and PrismD restarts, the communications port will open up automatically.

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: PrismD 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.

Passcode Level for Space Setpoint Access and Scheduling Access

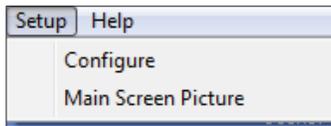
Although passcode level access defaults are set in the *Edit Passcodes Window* (see **page 9**), you can increase or decrease the default passcode level access for Changing Space Setpoints (default Level 1) and for changing Schedules (default Level 2) to levels between 0 through 3.

In order for PrismD 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.

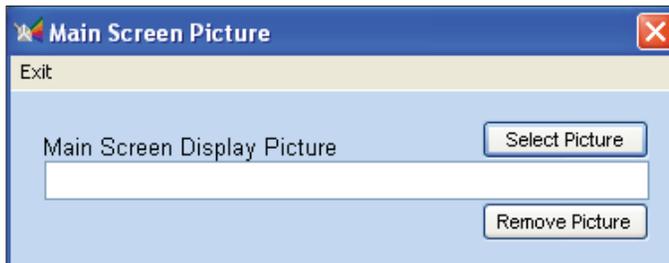
Main Screen Display Picture

You can substitute PrismD's *Main Screen* WattMaster Controls logo display with a bitmap (BMP, JPEG, GIF, TIF, or PNG format) of your choice.

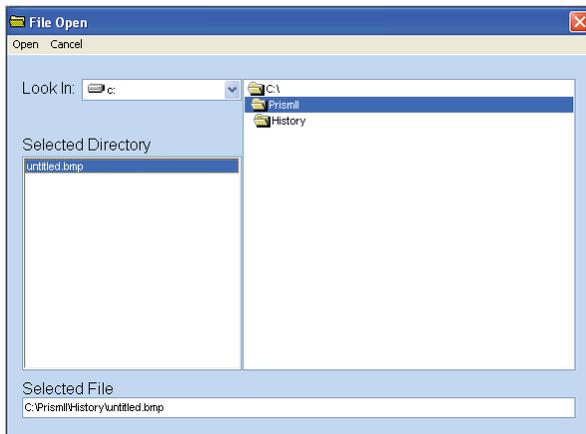


From the Setup Menu, *click* <Main Screen Picture>.

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.

To remove the image, click <Remove Picture>.

STEP 4: SETTING UP COMMUNICATIONS

TCP/IP Connection

Step 4: Setting Up Communications

This section discusses the initial settings required to get PrismD communicating with your DDC digital controls. If using an external CommLink communications device, it must already be installed and all communications wiring must be completed before PrismD can communicate with your system. Refer to the CommLink 5 Technical Guide for instructions if needed.



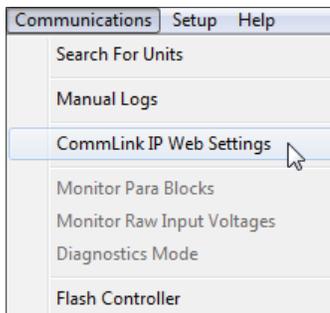
Once the job-site has been configured, you should be able to initiate communications with the attached CommLink device or on-board CommLink. Click on the <Off Line> button to force PrismD to open a communications port or socket to the CommLink. If it is successful, the button indicator will light up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

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

TCP/IP Connection

The CommLink IP Web Settings option is provided in PrismD to eliminate the need to run a separate program to verify settings while troubleshooting or performing other changes as specified by WattMaster Technical Support.

The *IP Module Technical Guide* is provided with the IP Module which details all required settings and configurations which will not be discussed in this manual.



If you are using a CommLink 5 w/IP device, you need to set up initial settings by clicking <CommLink IP Web Settings> from the Communications Menu.

You must have a valid connection to your CommLink 5 w/IP device, for this menu item to be accessible.

The *CommLink IP Module Window*, shown below, will appear if a connection is established.



The *Windows Security Window*, shown below, might pop up before you can have access to the *CommLink IP Module Window*, shown above. Click <OK> or <Cancel> to bypass this Windows Security Window.

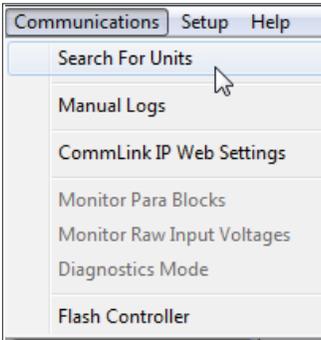


WARNING: If you do enter a user name and password in this window and forget one or both of the items, you will be permanently locked out of the IP Module configuration settings. WattMaster cannot reset those credentials back to the default, and as a result, you will need to purchase a new IP Module. Therefore, we highly recommend that you do not enter a username and password in this window.

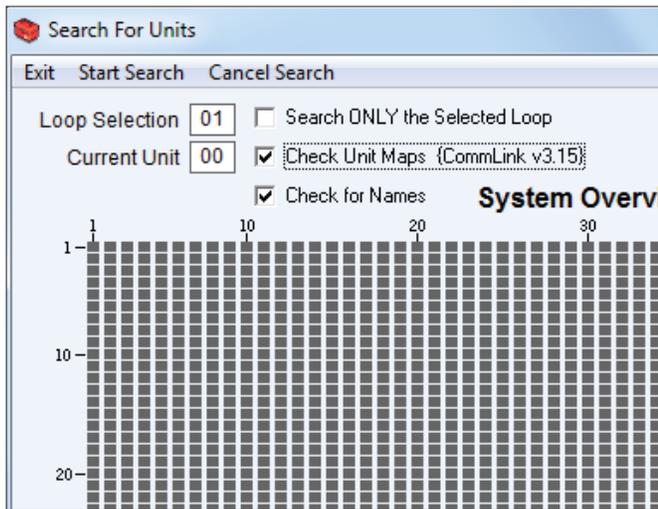
Step 5: Searching For Installed Units

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 PrismD is **On Line** and you have Level 3 access. From the *Main Menu*, click <Communications>, <Search For Units>.



The *Search For Units Screen* will appear. See below.



The **Check Unit Maps** is checked by default. You should keep this option checked 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 Select 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 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. Make sure your system is On Line and check other communication configurations as necessary.

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 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 you don't want to save the results.

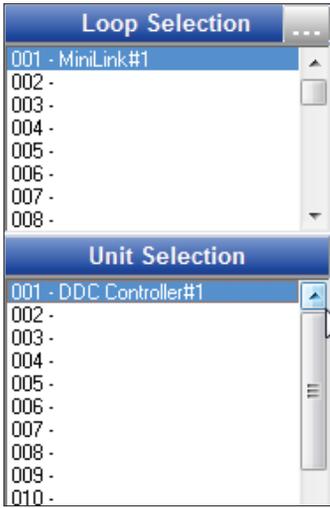
STEP 6: SELECTING & RENAMING UNITS

Selecting and Renaming Loops and Units

Step 6: 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 PrismD 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 *PrismD 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 *PrismD Top Toolbar*:



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

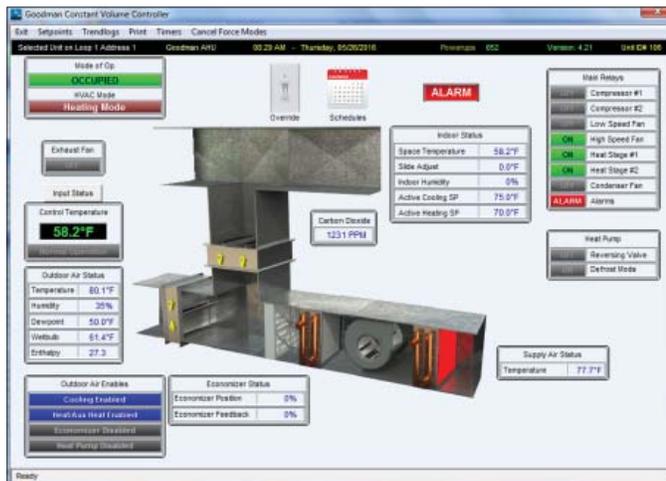
NOTE: You can rename job sites that appear in the *Site Selection Window* in the *Job Sites Window Selected Location* field.

Step 7: 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 this manual.

Configuring the DDC Controller

When you select a DDC Controller, the *Status Screen* for that controller will appear. See sample screen below.



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

Select <Setpoints> to view each setpoint screen associated with the control type. You must have a Level 3 passcode to access most of the setpoints on these screens.

Select <Trendlogs> to open the normal trend log screen and perform whatever task you normally would from that screen.

Select <Print> to send the printout to a preview window where you can then select the printer. The printout will be in text format with a list of the important status information.

Select <Timers> to view Stage Up, Stage Down, Run Times, Off Times, and Delay Times.

Select <Cancel Force Modes> to immediately cancel all force modes. Force Modes will automatically cancel on their own 10 minutes after PrismD goes **Off Line**.

Controller Override, Schedule, and Holiday Configuration

At the top of the *Status Screen* next to the Occupied/Unoccupied and Mode indicators are the buttons <Override>, <Schedule>, and <ALARM>.

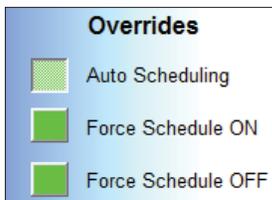


The <Override> button overrides the current occupied/unoccupied operating mode. The <Schedule> button accesses the weekly schedule and the holiday schedule. The <ALARM> button accesses the *Unit Alarm Status Screen*, discussed on **page 21**.

Controller Overrides



If the controller supports it, you can override the schedule mode of operations by clicking on the <Override> button. The *Overrides Window* will appear. You can choose Force Schedule ON or Force Schedule OFF. A scheduled force override will remain in effect until cancelled. To cancel an override, select the Auto Scheduling option.

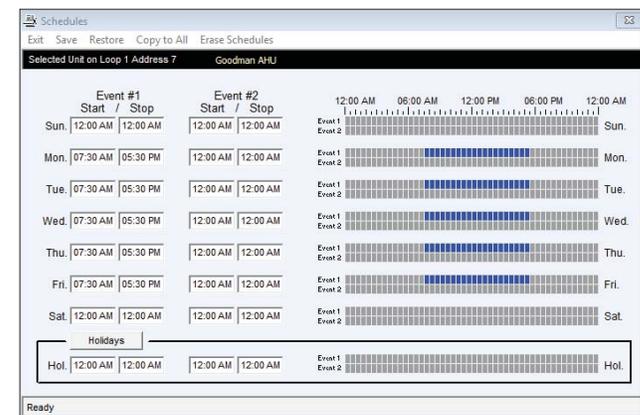


Controller Weekly Time Schedules



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

The *Schedules Window* below shows an 08:00 AM to 05:00 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.



STEP 7: CONFIGURING UNITS

Configuring Units

When you enter a time in any field, you must type in 3 or 4 characters for each field and you must designate AM or PM and *press* <ENTER>. For example, 500 PM, <ENTER> or 1100 PM, <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 this page.

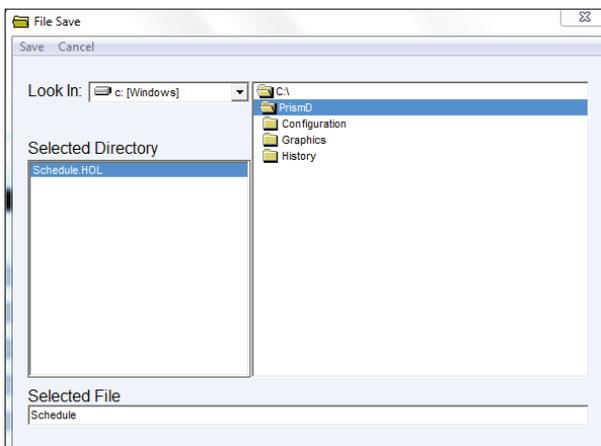
To eliminate a schedule from any event, simply *type* a zero and *press* <ENTER> for the Start and Stop time for that day. The screen will display 12:00 AM for both the Start and Stop times, indicating that the equipment will not activate for that day.

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* <Copy to All> to copy the schedule to all like controllers, and *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>.

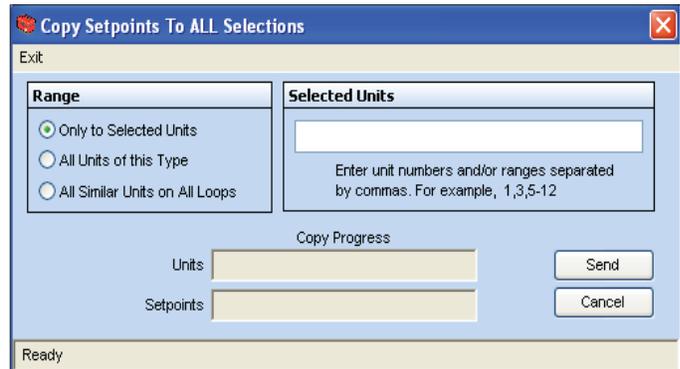


The following message will pop up if the schedule is saved successfully. Click <OK> to make it disappear.



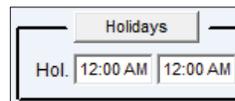
In the *Schedules Window*, click <Restore> to restore any previously saved schedule from a previously saved file. If you try to load a schedule from one type of controller to a different type of controller, PrismD will display an error message and prevent you from making this mistake.

In the *Schedules Window*, click <Copy To All> to copy a schedule to other controllers. The following window will pop up:

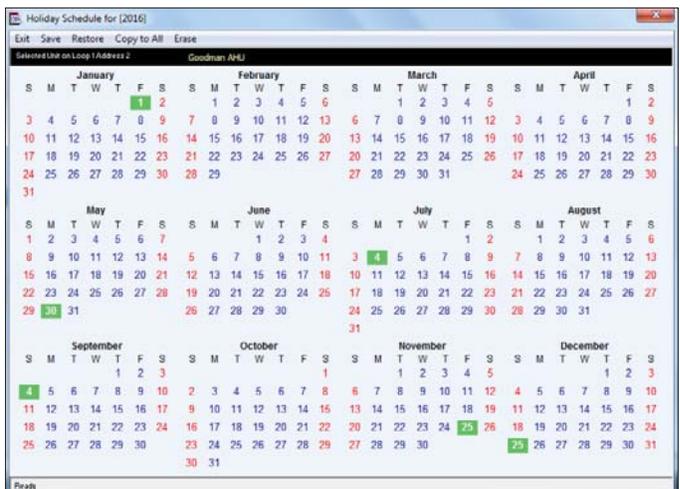


Select a range to copy to in the *Range Box* or type unit number(s) in the *Selected Units Box* and then click <Send> to start the copy process. When the copying is complete, the message *Copy Completed* will appear in the bottom status bar of the window. Click <Exit> to close the window.

Controller Holidays Schedule



To access the controller's Holiday scheduling, click the <Holidays> button found at the bottom of the *Schedules Window*. 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 *Schedules Window*.

As in the case with Schedules, you can select the <Erase> button to clear all selected holidays at one time. Refer to *Schedules* for directions on <Save>, <Restore>, and <Copy to All>.

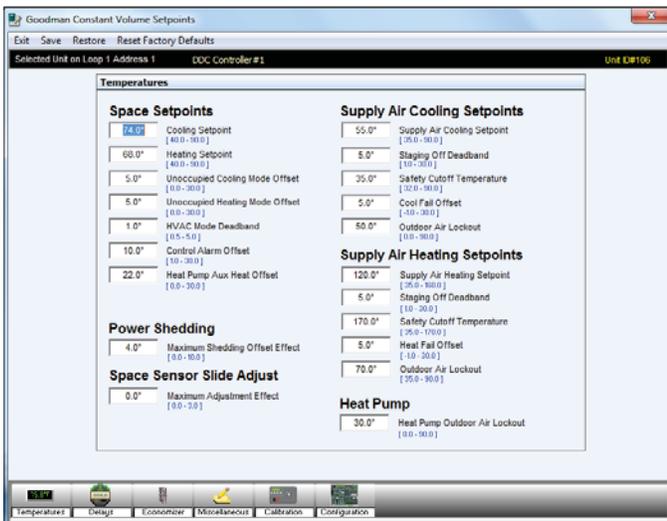
Holidays can only be programmed for the current year. You cannot program holidays before the next year occurs. Holidays do not automatically adjust for the new year, so you will need to access this screen after the new year and make necessary adjustments to the days that float, such as Memorial Day.

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.



If you position the cursor over the top of a setpoint field, 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, PrismD will not accept the new value and will restore the previous value in that field.

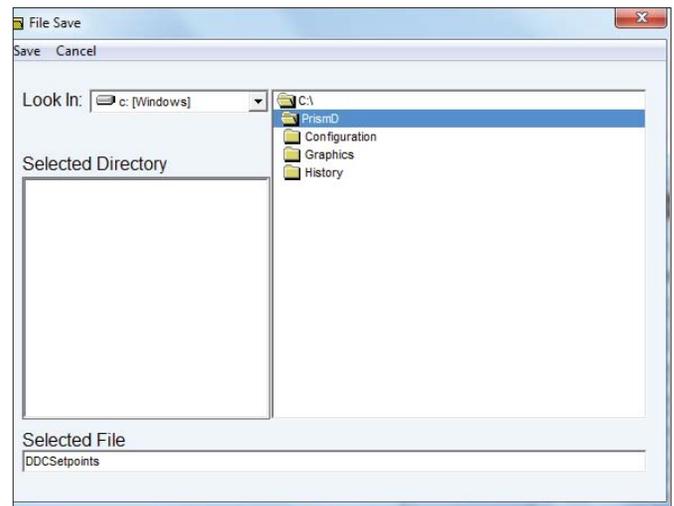
Setpoints are contained in groups that are closely related, such as Temperatures or Staging Delays. When you select a button along the bottom of the screen, the corresponding list of setpoints will be displayed.

From each setpoint screen, you can select <Save>, or <Restore>, and/or <Reset Factory Defaults> to make restoring setpoints so much easier.

NOTE: <Save>, <Restore>, and <Reset Factory Defaults> saves and restores 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 the setpoints to your controller at a later time. Select <Save> from the *Top Menu Bar* of the designated *Setpoint Screen*. Give the setpoint file a name and click <Save>.



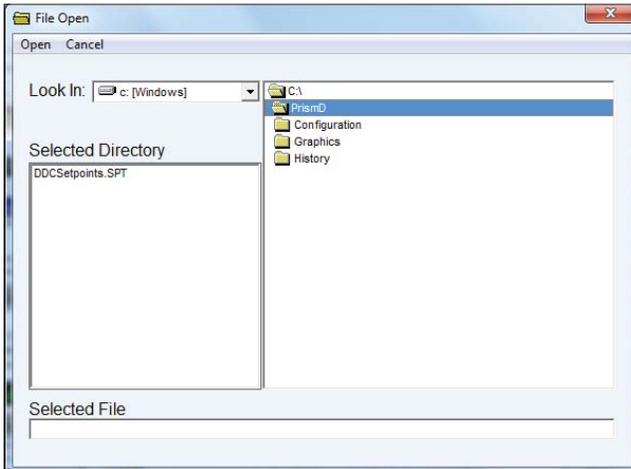
STEP 7: CONFIGURING UNITS

Configuring Units

Restore Setpoints

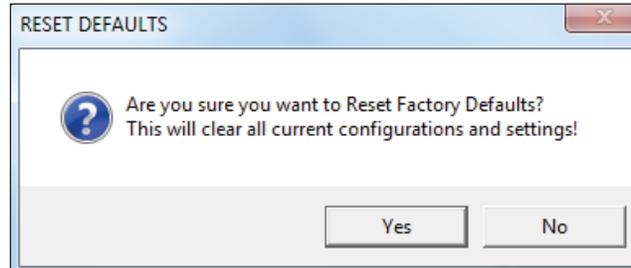
To re-load these setpoints from the file you created, *select* <Restore> from the *Top Menu Bar* of the designated *Setpoint Screen*. The only difference you will see from the above screen is the title of File Open instead of File Save. Find your designated setpoint file from the list of folders, and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

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



Reset Factory Default Setpoints

To restore factory default setpoints, *select* <Reset Factory Defaults> from the *Top Menu Bar* of the designated *Setpoint Screen*. The following window will appear:



Restoring the factory default setpoints will clear all current configurations and settings. If you are sure you want to do this, *click* <Yes>. A message will appear stating that the Factory Defaults have been reset.

Refreshing the Screen

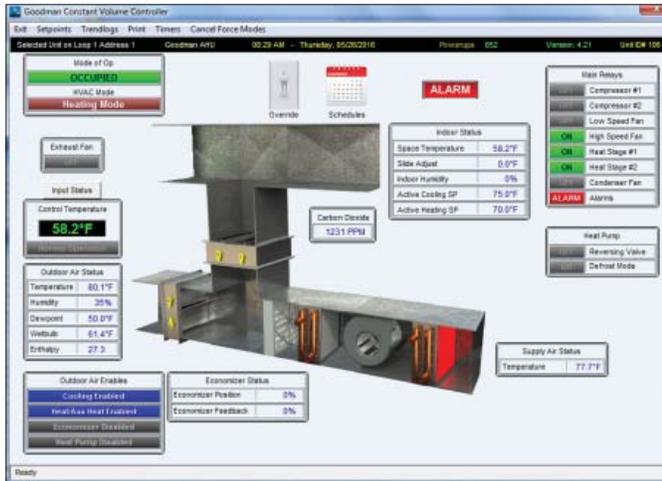
Once you have configured a unit, you may have to *click* the <Refresh> button found on PrismD's *Top Toolbar* to have the new configuration appear on the unit's status screen.

Viewing and Resetting Unit Alarms

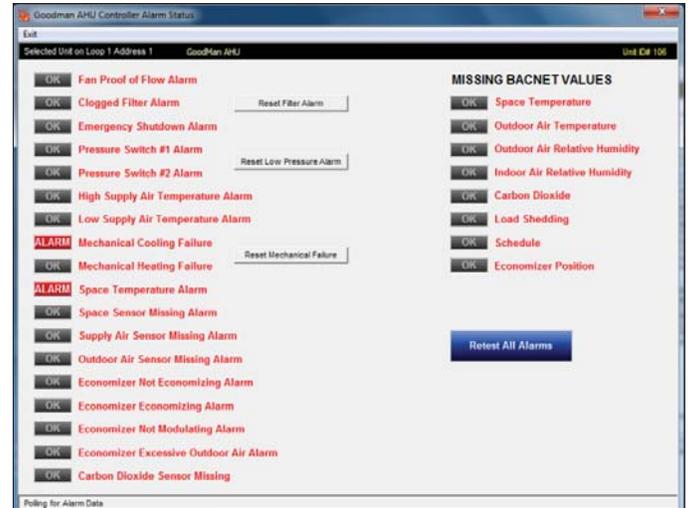
Step 8: Viewing and Resetting Unit Alarms



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. Refer to the *Status Screen* below.



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



This screen displays the Alarm Status for each alarm. The <OK> button to the left of each alarm will be bright red if an alarm exists and will be grey if no alarm exists.

To the right of some of the alarms, are <Reset> buttons. These Buttons are used to reset the associated alarm and all of the internal timers and counters.

The <Retest All Alarms> button clears all of the Alarm status points. If the alarm is still active, the alarm indication will reappear on the *Alarm Status Screen*.

STEP 9: TREND LOGGING & PRINTING

Selecting Trend Logs

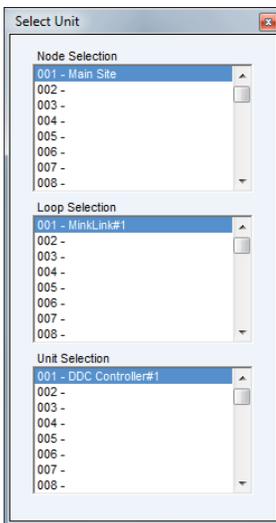
Step 9: Trend Logging and Printing



Before you select this option, you should close any other open status, setpoint, or diagnostic screens. To display trendlog data, from the *PrismD Main Screen Top Toolbar*, click the <Logging> button.

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



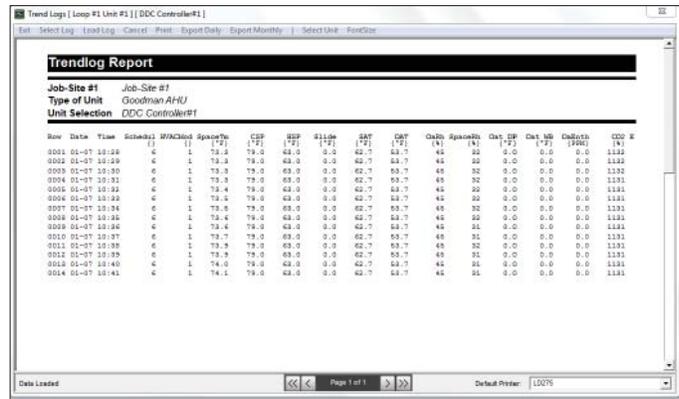
You can change the controller by clicking <Select Unit>. The *Select Unit Dialog Box* will appear as displayed at left.

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

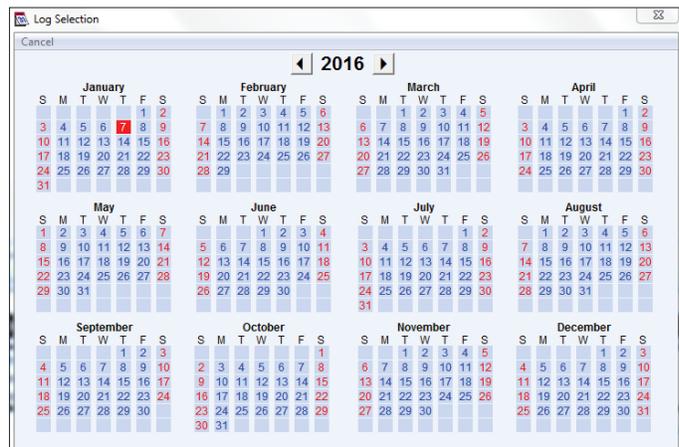
Once you have selected the desired unit, you can either load the most recent log data by selecting <Load Log> or load previously stored logs by selecting <Select Log>.

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.

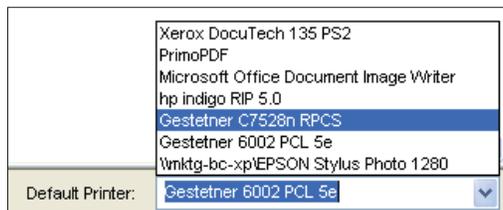


To view previously saved log files, click <Select Log>. The *Log Selection Window* will appear. PrismD will search the folder of the specified unit to determine which days of the year a log has been saved. If you are auto-logging, every day of the year will display in red.



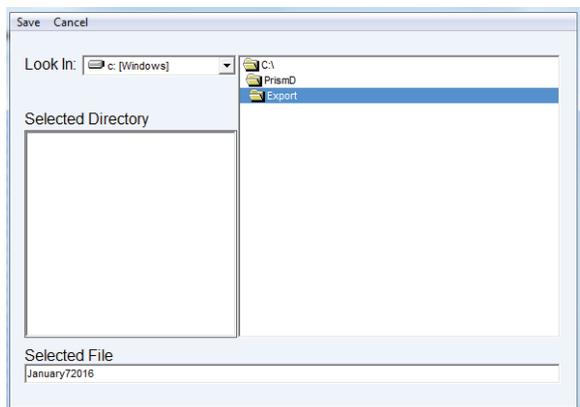
From this screen you can see highlighted days of the year (represented with a red background) that indicate a log was saved for this controller on that day. Click on any highlighted date to load the data.

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 PrismD, this printer selection will be the default printer until you change it.

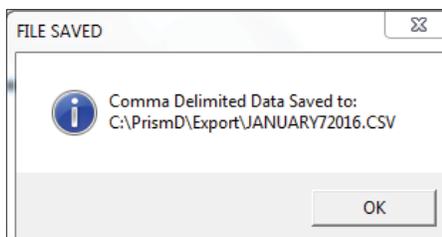


NOTE: If you select a printer from this list box, it will become the default printer for all programs on your computer unless you select a different printer in PrismD or from the Windows® Control Panel.

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

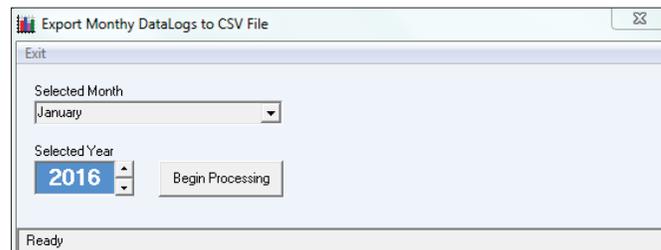


If you *select* <Export Daily>, the *File Save Window* will appear. Give the file a name and click <Save>.



PrismD will display the file name and location created for the exported data.

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

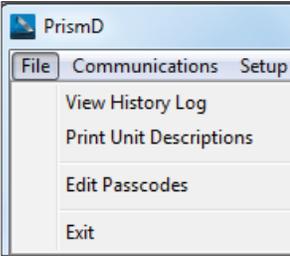


Select a month from the **Selected Month** drop down box, *select* a year from the **Selected Year** scroll box, and then *click* <Begin Processing>. When the processing is done, the message DONE will appear in the bottom status bar of the window. Your data will be saved in your PrismD directory.

STEP 9: TREND LOGGING & PRINTING

View History Log and Print Unit Descriptions

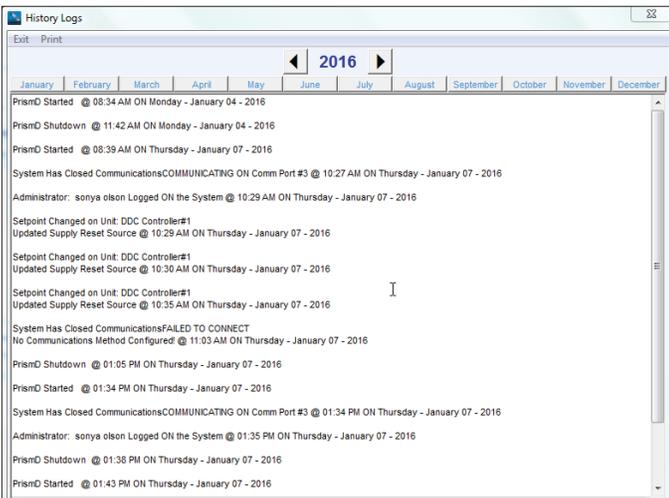
File Menu



There are three options located under the File Menu—<View History Log>, <Print Unit Descriptions>, and <Edit Passcodes>. The <View History Log> and <Print Unit Descriptions> are described below. The <Edit Passcodes> function is described on [page 9](#).

View History Log

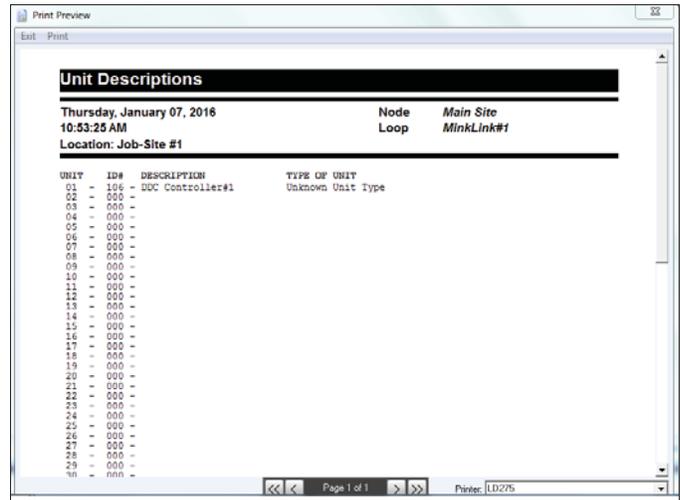
PrismD tracks most user interactions such as logging on and off, changing setpoints, acknowledging alarms, etc. These are selected and displayed on the *History Logs Screen* when you *click* <View History Log> from the File Menu and choose a month and year:



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.

Print Unit Descriptions

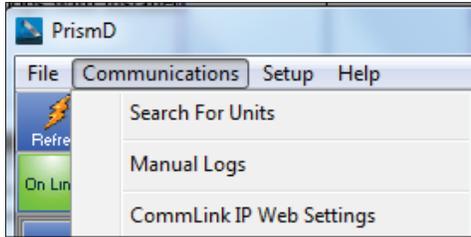
To obtain a hard copy of installed units and their descriptions, *click* <Print Unit Descriptions> from the File Menu. The *Print Preview Screen* will appear, allowing you to preview the printout before actually sending it to the printer. Only loops with installed units will be presented for printing.



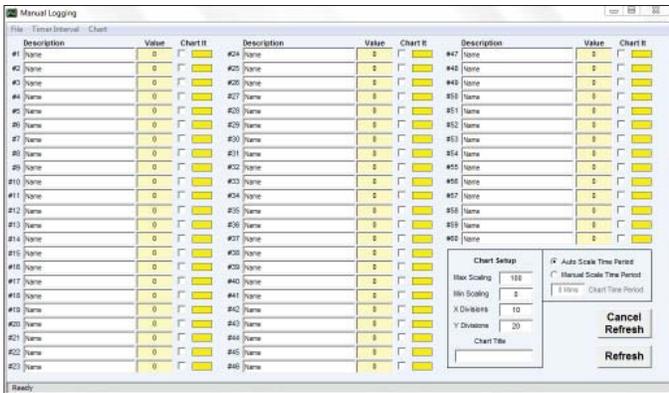
Step 10: Manual Logging

Manual logging allows you to troubleshoot the system by graphing specific data from one or more controllers on a local loop. The logging interval can be set up in seconds or minutes.

From the *PrismD Main Screen*, select <Manual Logs> from the Communications Menu.

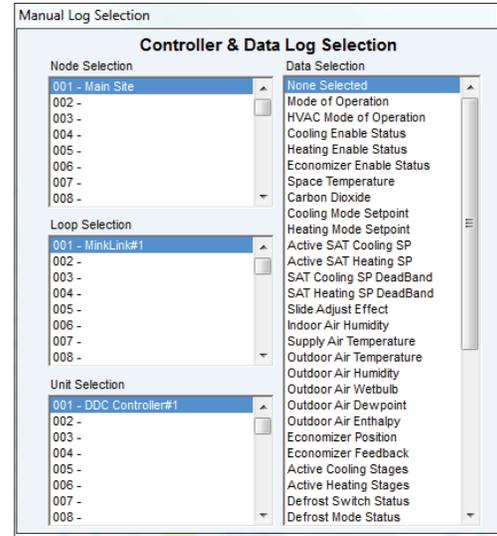


The *Manual Logging Window* will appear.

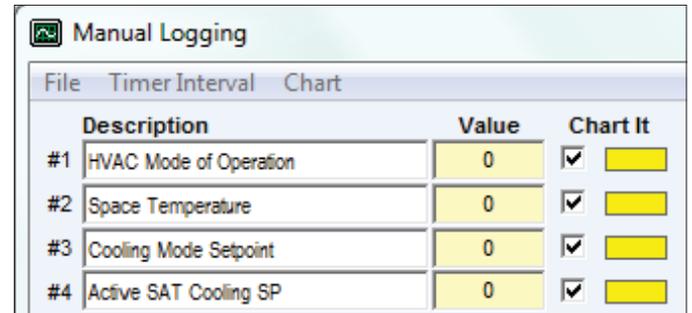


You can graph and compare up to 60 different types of data at once for one controller or the same type of data for up to 60 controllers.

Click in one of the Value fields and the *Manual Log Selection Window* will appear, allowing you select the controller and data you wish to graph for each value field:



When you select the type of data, its description will display in the Description field. You can then choose whether or not to chart each item by making a check mark in the Chart It field.



STEP 10: MANUAL LOGGING

Manual Logging

At the lower left of the *Manual Logging Window* is the Chart Setup, where you can enter dimensions and a Chart Title, choose Auto Scale Time Period or Manual Scale Time Period, Refresh your chart data, and Cancel the Refresh.

Chart Setup	
Max Scaling	<input type="text" value="100"/>
Min Scaling	<input type="text" value="0"/>
X Divisions	<input type="text" value="10"/>
Y Divisions	<input type="text" value="20"/>
Chart Title	
<input type="text" value="DDC Controller #1"/>	
<input checked="" type="radio"/> Auto Scale Time Period	
<input type="radio"/> Manual Scale Time Period	
<input type="text" value="0 Mins"/> Chart Time Period	
Cancel Refresh	
Refresh	

Auto Scale Time Period is set by the <Timer Interval> button at the top of the *Manual Logging Window* and is in seconds. The Manual Scale Time Period, on the other hand, is in minutes.

When you have set up all of your charting information, you can save your chart by *clicking* <File>, <Save> at the top of the *Manual Logging Window*.

When you are ready to graph your data selections, *click* the <Chart> button at the top of the *Manual Logging Window*.



At the top of the graph are menus allowing you to change the graph color(s) and save, print, clear, and exit the graph.



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