

IQ3 Web User Guide

Issue 3

TREND

Author: Trend Technical Publications

Issue: 3

Date: 07/01/2010

Part Number: TC200631

Copyright: © 2010 Honeywell Technologies Sàrl, ECC Division. All rights reserved.

This manual contains proprietary information that is protected by copyright. No part of this manual may be reproduced, transcribed, stored in a retrieval system, translated into any language or computer language, or transmitted in any form whatsoever without the prior consent of the publisher.

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, ZA, La Pièce, 16, 1180 Rolle, Switzerland by its Authorized Representative, Trend Control Systems Limited

For information contact:

Trend Control Systems Limited
Albery House
Springfield Road
Horsham
West Sussex
RH12 2PQ

NOTICE: Trend Control Systems Limited makes no representations or warranties of any kind whatsoever with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Trend Control Systems Limited shall not be liable for any errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material. Trend Control Systems Limited reserves the right to revise this publication from time to time and make changes in the content hereof without obligation to notify any person of such revisions or changes.

Please send any comments on this or any other Trend technical publication to techpubs@trendcontrols.com

TABLE OF CONTENTS

1	ABOUT THIS MANUAL.....	<u>5</u>
1.1	Conventions Used in this Manual.....	<u>5</u>
1.2	Contacting Trend	<u>6</u>
2	ABOUT IQ3	<u>7</u>
3	IQ3 PAGES	<u>9</u>
3.1	Welcome Page	<u>9</u>
3.2	Alarms Page.....	<u>10</u>
3.3	Modules Page	<u>11</u>
3.4	Module Detail Pages.....	<u>13</u>
3.5	Graphical Display Pages.....	<u>14</u>
3.6	Graph Pages.....	<u>15</u>
4	USING IQ3 FROM A WEB BROWSER	<u>17</u>
4.1	Basic Use	<u>17</u>
4.1.1	Connect to the IQ3 Controller.....	<u>18</u>
4.1.2	Login.....	<u>18</u>
4.1.3	Log Out.....	<u>19</u>
4.1.4	Refresh the Display.....	<u>19</u>
4.2	Add a User.....	<u>19</u>
4.3	View Occupation Times.....	<u>21</u>
4.3.1	View Normal Occupation Times.....	<u>21</u>
4.3.2	View Exceptions	<u>22</u>
4.3.3	Adjust Occupation Times.....	<u>23</u>
4.3.4	Change Normal Occupation Times.....	<u>23</u>
4.3.5	Set up Exceptions.....	<u>24</u>
4.4	Adjust Values.....	<u>28</u>
4.4.1	Adjust a Knob's Value	<u>28</u>
4.4.2	Adjust a Switch's Status.....	<u>29</u>
4.4.3	Adjust Module Parameters.....	<u>30</u>
4.5	Display a Graph.....	<u>31</u>
4.5.1	Display the Graph Data.....	<u>32</u>
4.5.2	Zoom in and Out of a Graph.....	<u>32</u>
4.5.3	Formatting Graphs	<u>32</u>
4.6	Display 10 Modules From a Specified Module.....	<u>33</u>
4.7	Display Other Modules.....	<u>33</u>
4.8	View Graphical Display Pages	<u>34</u>
4.9	View the Alarm Log	<u>35</u>
4.10	View Module List Pages.....	<u>36</u>
4.11	View Module Detail Pages	<u>37</u>
4.12	Goto the Associated Module.....	<u>37</u>
	INDEX.....	<u>39</u>

1 ABOUT THIS MANUAL

This manual applies to IQ3 controllers with version 2.10 firmware. It provides a description of how to use an IQ3 controller when accessing it using a web browser. It is intended for a reader with knowledge of the IQ3 modules. It is assumed that the controller has already been set up and configured, and the user is familiar with basic computer use, and has knowledge of IQ configuration modules and of BMS. It is divided into several sections.

About IQ3

This section describes IQ3 controller.

IQ3 Pages

This section describes the different displays available when an IQ3 controller is accessed from a web browser.

Using IQ3 From a Web Browser

This section describes how to use an IQ3 controller from a web browser once it has been installed and configured.

Other relevant documentation is:

IQ3 Data Sheet (TA200505)
Product Data Sheets

To ensure you have the latest issue of these documents check our WEB site (www.trendcontrols.com).

1.1 Conventions Used in this Manual

There are numerous items and instructions in this manual, the conventions below are designed to make it quick and easy to find and understand the information.

- Options that you need to select are in **bold** type.
- The names of text boxes and screens are in **bold** type.
- Text you should enter is in *Italic* type.

1.2 Contacting Trend

Head Office

Trend Control Systems Ltd
PO Box 34
Horsham
Sussex
RH12 2YF
England

Tel: +44 (0) 1403 211888

Fax: +44 (0) 1403 241608

Details of regional offices can be found on our web site.

Internet

Our company web site (www.trendcontrols.com) provides information about our products and us, or our support web site (<http://pnet.trend-controls.com>).

Technical Support

Our support department provides technical support during normal office hours. Before contacting our support department ensure that you have your Technical Support PIN number available, without this we will be unable to provide you with any support.

Tel: +44 (0) 1403 226600

Email: trendts@trendcontrols.com

Fax: +44 (0) 1403 226310

Technical Publications

Please send any comments on this or any other Trend technical publication to techpubs@trendcontrols.com.

2 ABOUT IQ3

The IQ3 controllers are Building Management System controllers that use Ethernet and TCP/IP networking technologies. Each controller incorporates a web server which can deliver user-specific web pages to a PC or mobile device with a web browser. If a system is set up with the correct connections, a user with the appropriate security codes can monitor or adjust the controller from any internet access point in the world.

This manual describes how to access an IQ3 controller from a web browser, and the pages that it displays.

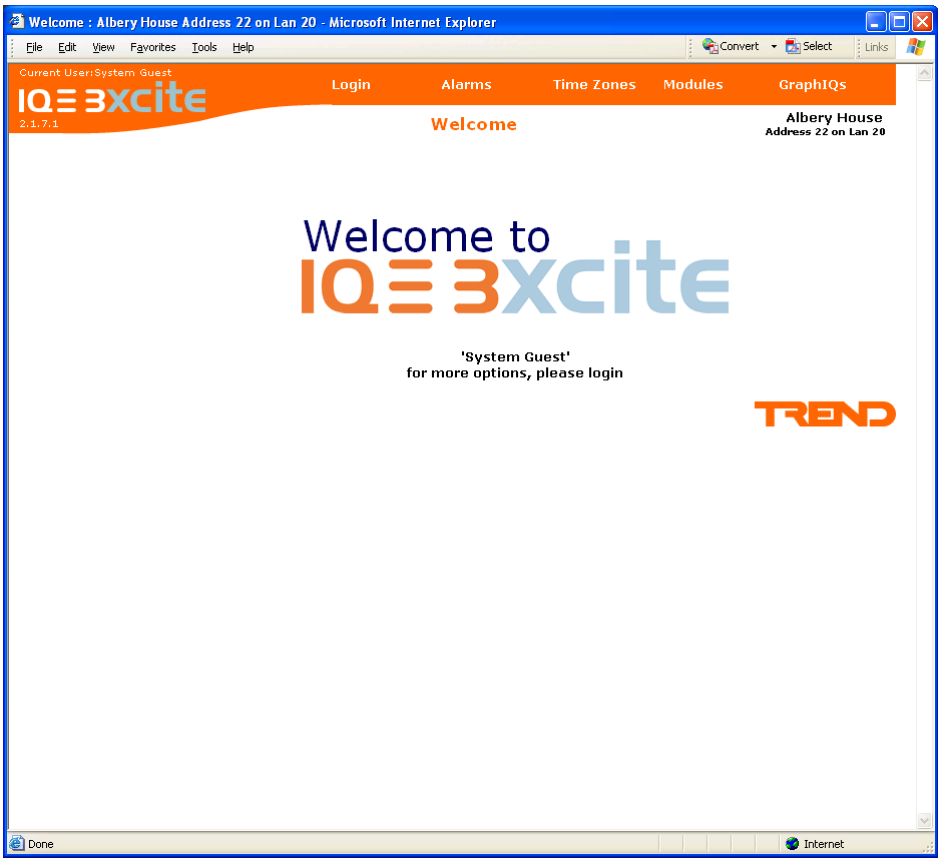
3 IQ3 PAGES

This section describes how IQ3 controllers appear when accessed using a web browser. There are a number of different pages:


- [Welcome Page](#)
- [Alarms Page](#)
- [Modules Page](#)
- [Module Detail Pages](#)
- [Graphical Display Pages](#)
- [Graph Pages](#)

3.1 Welcome Page

When accessing an IQ3 controller from a web browser the **Welcome Page** shown below is displayed. This page allows you to login, and provides access to alarms, timezones list of modules, and GraphIQs pages.



The **Welcome Page** has a menu bar along the top which provides access to other pages, and enables the data on the existing page to be refreshed. The table below describes the function of each button.

<i>Button</i>	<i>Description</i>
	Refreshes the data in the alarm list.
Login/Logout	This button changes between Login , and Logout depending on whether you have entered a valid user name and password. Login enables the user name and password to be entered, and Logout enables you to logout when you finish
Alarms	Displays the Alarms page which lists modules in the controller’s alarm log.
Time Zones	Displays the Time Zone Overview page which contains a list of the time zone modules.
Modules	Displays the Modules page which provides access to the module pages .
GraphIQs	Displays the top level graphical display page configured for the controller if one exists.

3.2 Alarms Page

The **Alarms** page, shown below, is accessed by clicking **Alarms** on the menu bar. It enables you to view the alarm log.



The **Alarms** page is divided into two areas:

- Menu Bar
- Alarm List

Menu Bar

The menu bar provides access to other pages, and enables the data on the existing page to be refreshed. The table below describes the function of each button.

Button	Description
	Refreshes the data in the alarm list.
Login/Logout	This button changes between Login , and Logout depending on whether you have entered a valid user name and password. Login enables the user name and password to be entered, and Logout enables you to logout when you finish
Alarms	Displays the Alarms page which lists modules in the controller's alarm log.
Time Zones	Displays the Time Zone Overview page which contains a list of the time zone modules.
Modules	Displays the Modules page which provides access to the module pages .
GraphIQs	Displays the top level graphical display page configured for the controller if one exists.

Alarm List

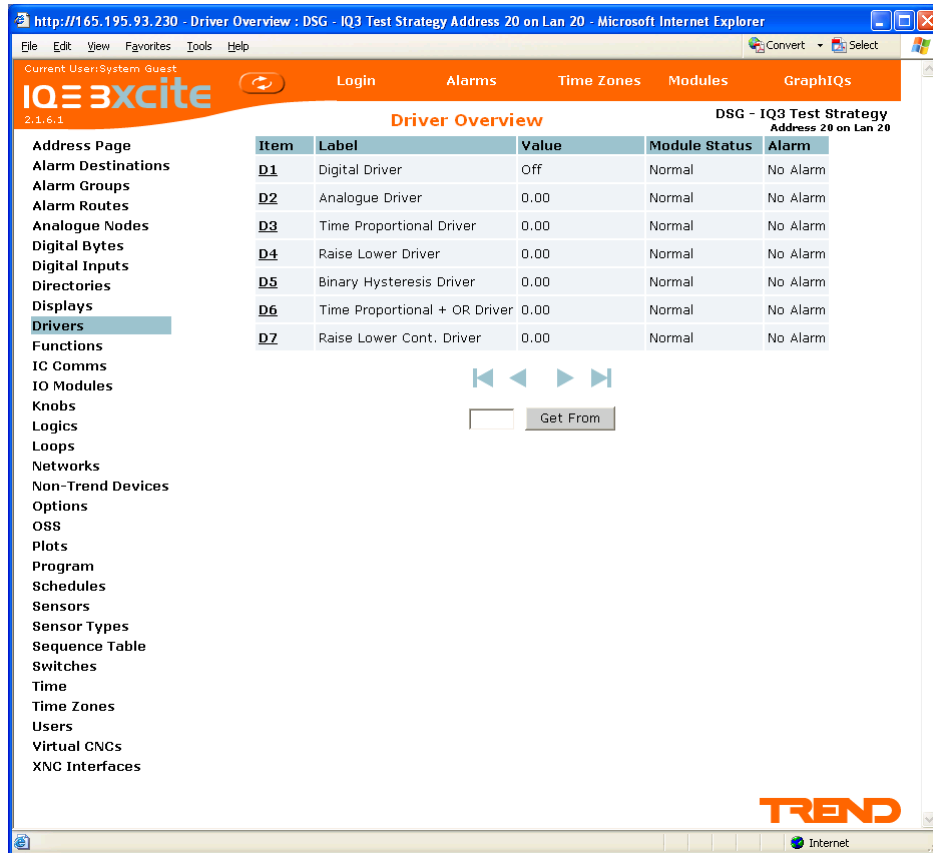
The alarm list displays the alarms in the controller's alarm log, the following information is page displays a list of the basic alarm attributes from the alarm log. The following information is displayed for each alarm.

- Module reference (e.g. S1 for sensor 1)
- Label
- Alarm type (e.g. high)
- Value at the time of alarm
- Date and time the alarm occurred
- Transition state (occurred or cleared)
- Alarm state (e.g. sent), or Event for v2.10 and later for the Log Buffer events.

Clicking the module reference in the **Module Ref** column will take you straight to module details page for the module to which the alarm applies.

3.3 Modules Page

The **Modules** page, shown below, is accessed by clicking **Modules**.



Module Overview pages are divided into three areas:

- Menu Bar
- Module Type List
- Module List

Menu Bar

The menu bar provides access to other pages, and enables the data on the existing page to be refreshed. The table below describes the function of each button.

Button	Description
	Refreshes the data in the module list.
Login/Logout	This button changes between Login , and Logout depending on whether you have entered a valid user name and password. Login enables the user name and password to be entered, and Logout enables you to logout when you finish
Alarms	Displays the Alarms page which lists modules in the controller's alarm log.
Time Zones	Displays the Time Zone Overview page which contains a list of the time zone modules.
Modules	Displays the Modules page which provides access to the module pages .
GraphIQs	Displays the top level top level graphical display configured for the controller if one exists.

Module Type List

The module type list lists all the module types available in the controller. The actual types of module available depends on the password level of the user currently logged in. Clicking on the module type displays a list of the modules of that type in the controllers strategy.

Module List

The module list contains a list of the modules of the selected type in the controllers strategy. Clicking a module type will produce a list of modules which enables a module to be selected to view its parameters, and, if authorised, to change them.

3.3 Modules Page (continued)

The list contains all the instances (10 on a page) of that module type in the strategy. The information displayed varies slightly depending on the module type. An example of the type of information displayed is described below.

Item (e.g. module D1)
Label
Value
Status
Alarm condition (e.g. Readback)





Clicking the module reference in the **Item** column will take you straight to [module details page](#) for that module. In the case of adjustment modules (i.e. knobs and switches), the value/status can be changed, and of sensor and plot modules can be graphed. Modules that have a current alarm condition associated with them are displayed in red.

Clicking  displays a [graph](#).

If time zones have been selected the list provides a list of all the time zones together with the label, the current occupation state (O=unoccupied, I=occupied), and links to the normal week and exceptions.

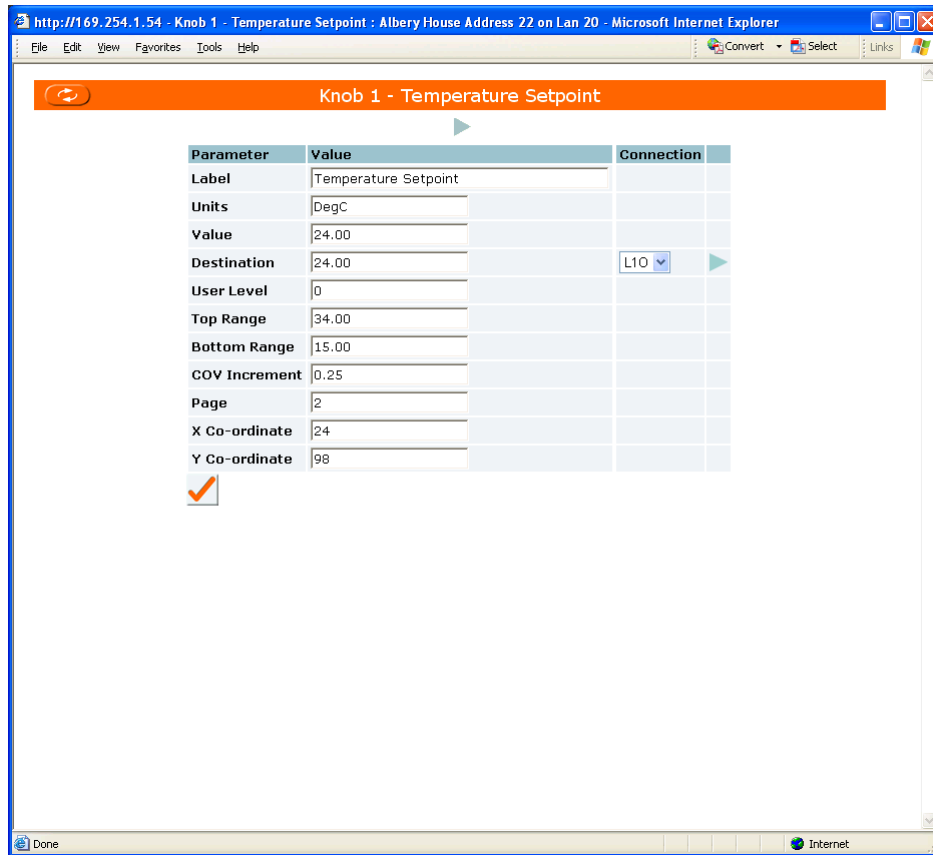
Selecting the normal week enables the normal occupation times for each day of the week to be set up. If required the times can be copied from one to the other. Additional occupation periods can be added to a day.

Buttons at the bottom of the list enable navigation to other modules of the same type.

Button	Description
	First 10 modules
	Next 10 modules
	Previous 10 modules
	Last 10 modules

3.4 Module Detail Pages

Module Detail Pages are displayed from the [modules page](#) or from where a module is referenced clicking it will display the **Module Detail Page** for that module providing the reference is underlined.



Module Overview pages are divided into three areas:

Menu Bar





Module Parameter Area

Menu Bar

The menu bar contains the module label and the  which refreshes the data in the module parameter area.

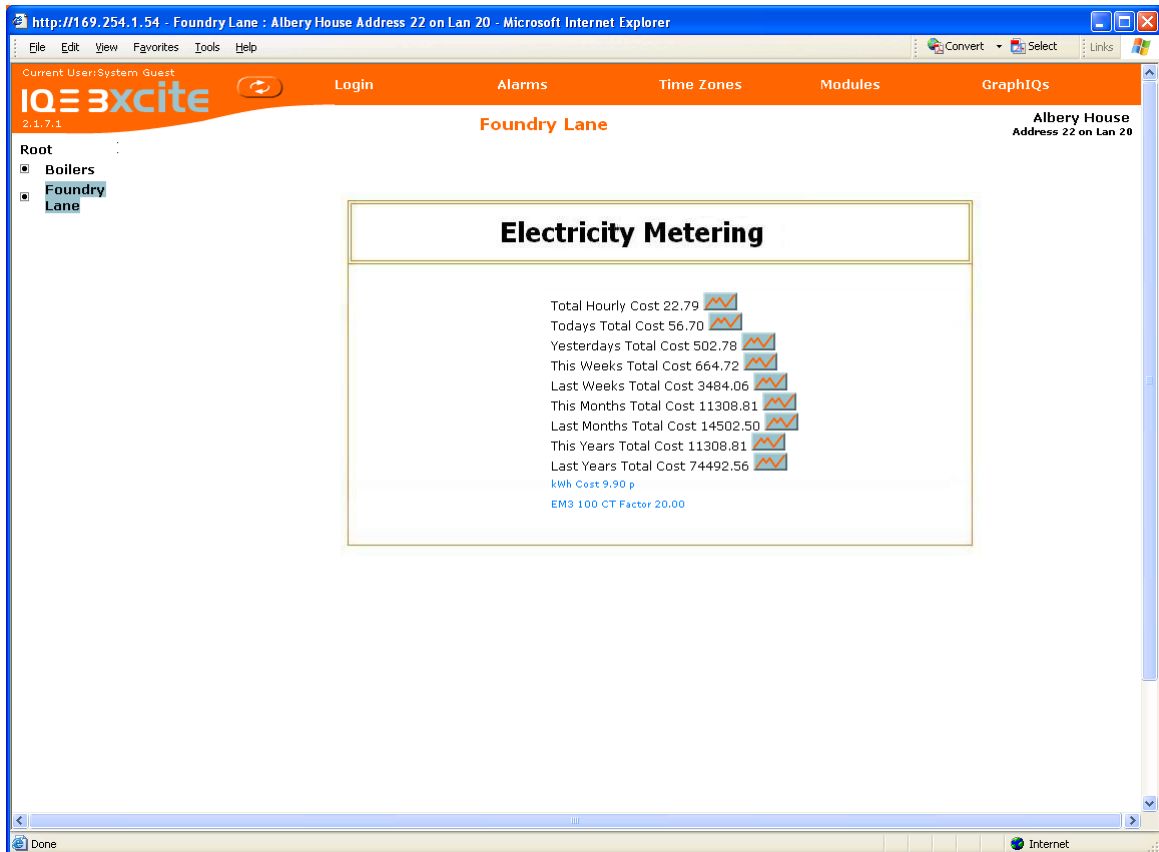
Module Parameter Area

The module parameter area displays the parameters for the selected module, and any strategy connections. The parameters displayed vary depending on the type of module and your password level. If you have a high enough level of authority, you can make changes to the module parameters, although no structural changes can be made to the strategy. Buttons enable navigation around the strategy in the controller.

Button	Description
 at the top of the page	Displays the module details page for the previous module of that type e.g. if D2 is selected D1 is displayed.
 at the top of the page	Displays the module details page for the next module of that type e.g. if D1 is selected D2 is displayed.
 in Connection column	Displays the module details page for connected module. If more than one module is connected the required module can be selected from the list.
	Saves any data that has been changed.

3.5 Graphical Display Pages

The **Graphical Display Pages** are accessed by clicking **GraphIQs**, they may also be displayed when you login depending on how your user has been configured. **Graphical Display Pages** provide a graphical way of viewing information from the IQ3 controller, and making changes.




The **Graphical Display** pages are divided into three areas:

- Menu Bar
- Directory Tree
- Data Area

Menu Bar

The menu bar provides access to other pages, and enables the data on the existing page to be refreshed. The table below describes the function of each button.

Button	Description
	Refreshes the data in the alarm list.
Login/Logout	This button changes between Login , and Logout depending on whether you have entered a valid user name and password. Login enables the user name and password to be entered, and Logout enables you to logout when you finish
Alarms	Displays the Alarms page which lists modules in the controller's alarm log.
Time Zones	Displays the Time Zone Overview page which contains a list of the time zone modules.
Modules	Displays the Modules page which provides access to the module pages .
GraphIQs	Displays the top level graphical display page configured for the controller if one exists.


Directory Tree

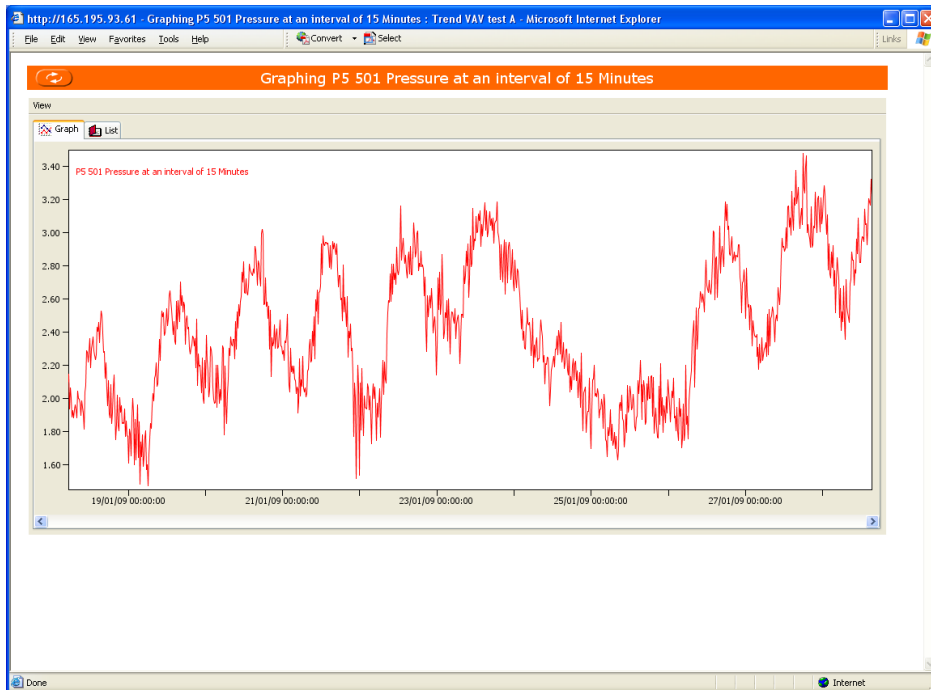
The directory tree contains all the directory modules in the controller in a hierarchal structure. Selecting a directory module causes the associated display modules to be displayed in the data area.

Data Area

The data area displays the graphical display pages for the directory module that has been selected in the directory tree. contains all the directory modules in the controller in a hierarchal structure.

3.6 Graph Pages

The **Graph Pages** are accessed by clicking the  button when it appears next to a module. The **Graph Page** contains a graph of the values in the plot module. Moving the mouse over the graph will display the value of the graph at that point.



Clicking **List** displays the values used to draw the graph. The graph can be viewed in more detail by zooming in. If the value is being logged at more than one interval other intervals can be selected from the list at the top of the page.

This page is intentionally left blank.

4 USING IQ3 FROM A WEB BROWSER

Information from IQ3 controllers can easily be accessed using a web browser, over any TCP/IP network (e.g. the company intranets, or the internet). This section describes how to use an IQ3 controller from a web browser.

Web browsers running on a PC may be of any configuration providing they are running TCP/IP networking protocol, have an Ethernet connection, Internet Explorer v6.0 or greater, and a SUN JAVA runtime environment v1.4 or greater installed. Clients running on PDAs require Windows CE4, and clients running on smartphones require Windows Mobile 2003 Second Edition and do not support graphs and right to left languages.

Note that IQ3 has not been tested with all devices and Trend cannot guarantee a particular device's compatibility.

There is a summary of using an IQ3 controller from a web browser in the following section:

Basic Use


For a more detailed description of the different tasks, see the appropriate section of the manual.

4.1 Basic Use






Information from an IQ3 controller can easily be accessed using a web browser, over any TCP/IP network (e.g. the company intranets, or the Internet). All that is required is the URL of the controller, and a valid user name and password. Once connection to the controller has been made, it is possible to view and adjust occupation times, view the alarm history, and view/adjust/graph individual module parameters.

To access an IQ3 controller from a web browser:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login to ensure the controller presents you with information that is relevant to you as described in the 'Login' section of this manual. This may cause the controller to display a different page (your homepage).
3. Having accessed the controller you can navigate around the pages to view the required information and make adjustments. Clicking the different parts of the screen will enable you to perform different tasks. The display will make is clear what can be done. The menu bar provides access to other pages, and enables the data on the existing page to be refreshed. The table below describes the function of each button.

Button	Description
	Refreshes the data in the alarm list.
Login/Logout	This button changes between Login , and Logout depending on whether you have entered a valid user name and password. Login enables the user name and password to be entered, and Logout enables you to logout when you finish
Alarms	Displays the Alarms page which lists modules in the controller's alarm log.
Time Zones	Displays the Time Zone Overview page which contains a list of the time zone modules.
Modules	Displays the Modules page which provides access to the module pages.
GraphIQs	Displays the top level graphical display page configured for the controller if one exists.

Buttons on the different pages enable access to other pages, and navigation around the strategy.

Button	Description
 at the top of the page	Displays the module details page for the previous module of that type e.g. if D2 is selected D1 is displayed.
 at the top of the page	Displays the module details page for the next module of that type e.g. if D1 is selected D2 is displayed.
 in Connection column	Displays the module details page for connected module. If more than one module is connected the required module can be selected from the list.
	Saves any data that has been changed.
	Displays a graph of the associated value

When a reference to a module is displayed with an underline clicking it will display the module's detail page. There are a number of standard icons that enable certain task to be performed:

4.1 Basic Use (continued)

The table below lists the common tasks:

Add a User	View Graphical Display Pages
Adjust Occupation Times	View Occupation Times
Adjust Values	View the Alarm Log
Display a Graph	View Module List Pages
Display 10 Modules From a Specified Module	View Module Detail Pages
Display Other Modules	Goto the Associated Module

4.1.1 Connect to the IQ3 Controller

It is possible to connect to an IQ3 controller from anywhere, providing a TCP/IP connection can be made to it.

To connect to the IQ3 controller:

1. Connect to the IP network, and ensure that your network settings are set up to enable a TCP/IP connection to the IQ3 controller.
2. Run Internet Explorer.
3. Enter the URL of the IQ3 controller. This will be the IP address or name of controller (if DNS is available). The IQ3 controller's **Welcome Page** will be displayed.
4. Click **Login** and enter your user name and password to ensure the controller presents you with information that is relevant to you. For more information see the 'Login' section of this manual. This may cause the controller to display a different page.

If you do not login, you will be given the status of either 'System Guest', or 'Guest' and the password level that may be one of:

<i>Password Level</i>	<i>Description</i>
100	Assigned if no users are set up which gives total access.
-1	Assigned if users are set up, and there is no user called guest that allows the module details and parameters to be viewed but not adjusted.
Configurable	If a user named guest has been configured, the password level associated with that user is used.

4.1.2 Login

If it is enabled the IQ3 controller's security will prevent unauthorised users viewing, and changing information that they are not authorised to use. This means that when you access the controller from a web browser you should login so that you see all the information that you need.

The user name and password should be entered. This must correspond to those set up in one of the controller's user modules. The user module will define the password level (i.e. what can be changed), and the home page for that user. If the home page is set up, it will be displayed once the user is logged in.

To login:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. Click **Login**.
3. In the **User Name** box enter your user name.
4. In the **Password** box enter your password.

Caution: If you check the Save this password in your password list box anybody accessing the IQ3 from your PC will automatically be logged in as you.

5. Click **OK**. You will now be logged in, and if one has been set up your home page will be displayed.

The home page can be one of the directory pages, which can be graphical display pages, or could also be any other HTML page (e.g. any standard IQ3 page, or a company web site). Once you have logged in the **Login** button changes to **Logout**. You should logout and close the browser after completing a session in order to preserve security.

4.1.3 Log Out

Once use of the IQ3 controller is finished, it is advisable to log out to prevent unauthorised changes being made.

To log out:

1. Click **Logout**.
2. Close the browser.

Note that if left unattended for a period of time the controller may automatically log the current user out if it has been configured in this way.

4.1.4 Refresh the Display

The data displayed can be refreshed to ensure that it is up-to-date.

To refresh the display:

1. Click .

4.2 Add a User

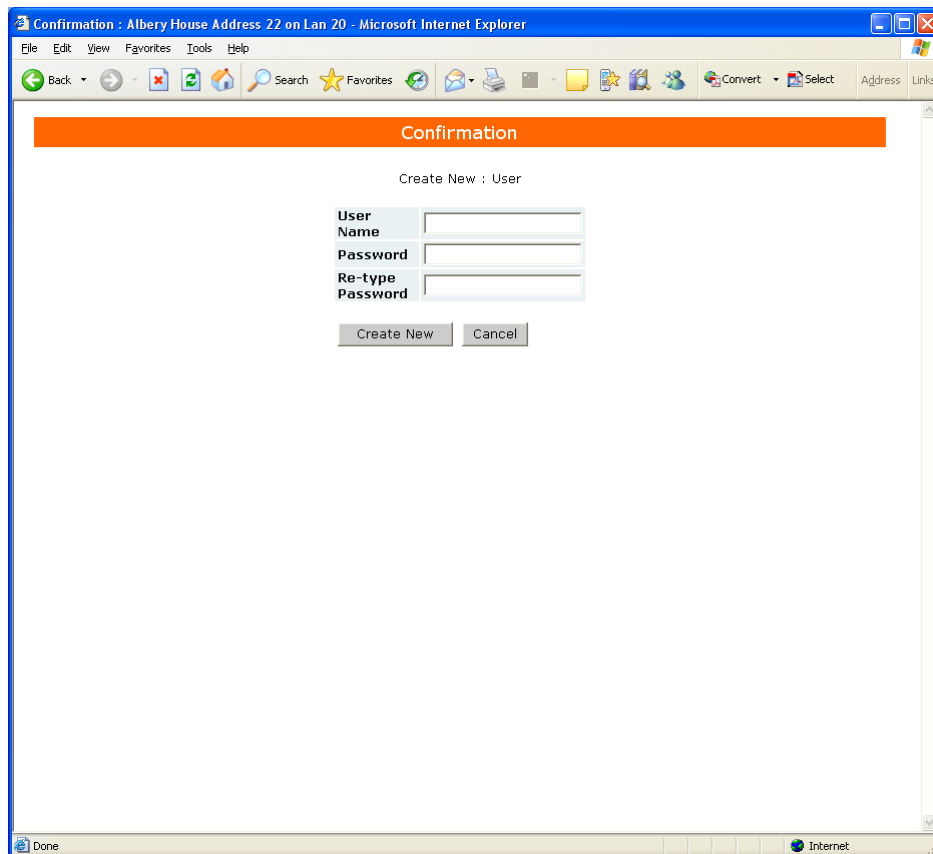
If required users can be added to prevent unauthorised changes.

To add a user:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.

Note that you must login as a user with a password level of at least 99.

2. Click **Modules**.
3. Click **Users**.
4. Click **Create New User**. The display shown below is displayed.



The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads 'Confirmation : Albery House Address 22 on Lan 20 - Microsoft Internet Explorer'. The browser's address bar is empty. The main content area features an orange header with the text 'Confirmation'. Below this, the text 'Create New : User' is centered. There are three input fields stacked vertically, labeled 'User Name', 'Password', and 'Re-type Password'. At the bottom of the form, there are two buttons: 'Create New' and 'Cancel'. The browser's status bar at the bottom shows 'Done' and 'Internet'.

5. In the **User Name** box enter the required user name. This is a 30-character name used when logging in from a web browser.

4.2 Add a User (continued)

6. In the **Password** box enter the password associated with the user name. This must be entered by the user when logging in from a web browser.
7. In the **Re-type Password** box re-enter the password associated with the user name. This must be entered by the user when logging in from a web browser.
8. Click **Create New**. The new user will be added.
9. Edit the new user module to set up the necessary parameters as described in the [‘Adjust Module Parameters’](#) section of this manual.

4.3 View Occupation Times

Information about the normal weekly occupation times any exceptions to those occupation times can be viewed:

[View Normal Occupation Times](#)
[View Exceptions](#)

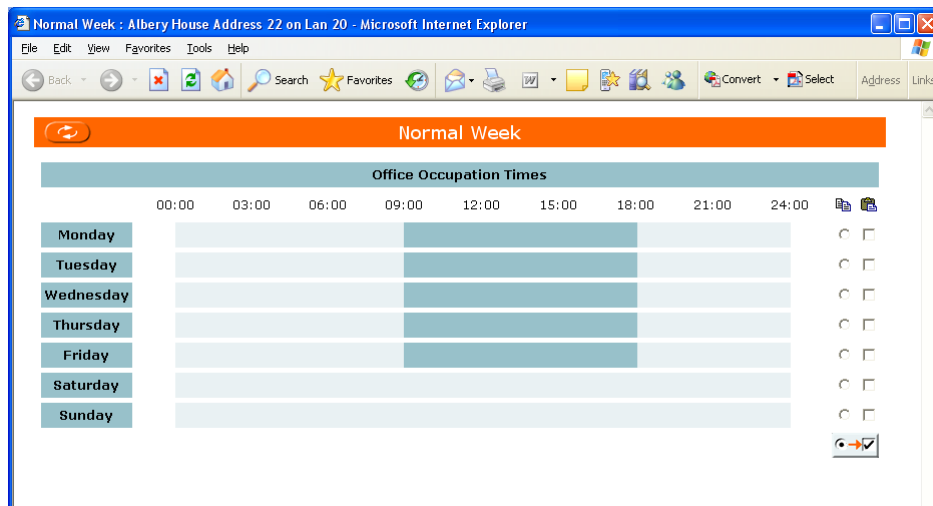
Selecting the normal week enables the normal occupation times for each day of the week to be set up. If required the times can be copied from one to the other. Additional occupation periods can be added to a day. Selecting the exceptions enables exceptions to standard working to be set up. Clicking the module in the 'Zone' column will take you straight to module details page for the zone.

4.3.1 View Normal Occupation Times

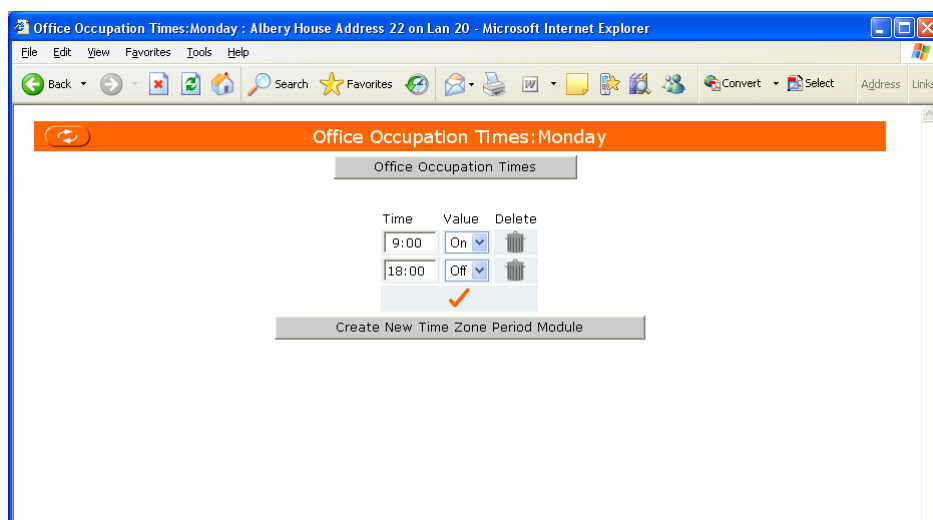
The normal occupation times specify the occupation times that will be used for each day unless there is an exception.

To view the normal occupation times:

1. Connect to the IQ3 Controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. Click **Time Zones**. If the required time zone is not displayed use the ◀ ◀ ▶ ▶ buttons to navigate to the required time zone.
3. Click **Normal Week**. A display similar to the one shown below appears in a different window.





This display indicates the occupation times for each day of the week. To view details of the occupation times for a particular day click the required day.

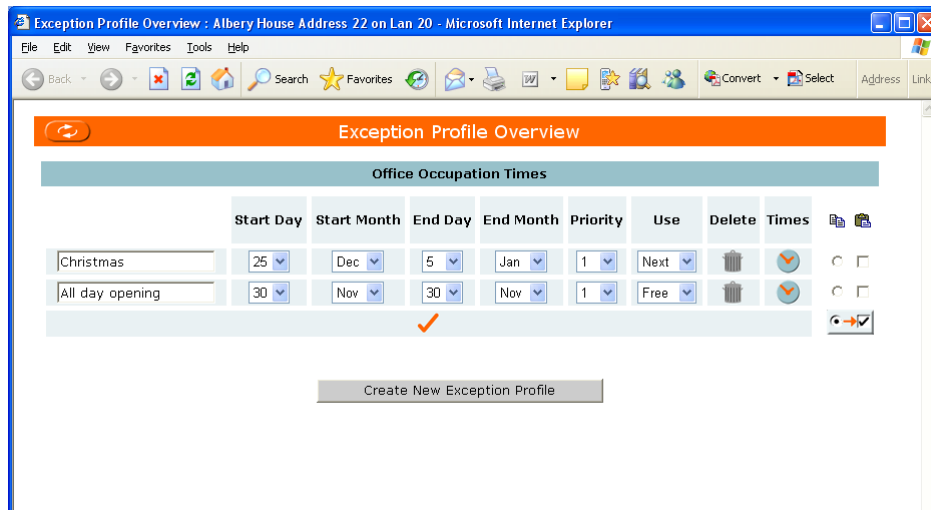



4.3.2 View Exceptions

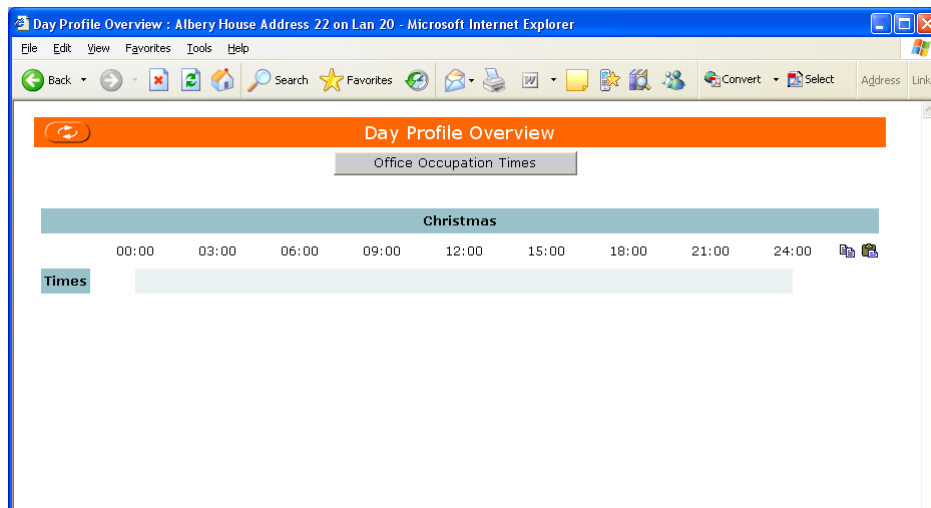
The exceptions define the date(s) to which the exception applies, and occupation times that will be used one those dates.

To view exceptions:

1. Connect to the IQ3 Controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. Click **Time Zones**. If the required time zone is not displayed use the   buttons to navigate to the required time zone.
3. Click **Exceptions**. A list of the exceptions is displayed, shown below, this list contains the dates to which the exceptions apply their priority, and whether they occur once, or every year.



This display lists the exceptions for the time zone. To view the occupation times for the exception click  next to the required exception.



Once the times are displayed clicking the button at the top of the page will return to the list of exceptions.

4.3.3 Adjust Occupation Times

The occupation times of the controller can be changed by changing the normal occupation times. If the change to the normal occupation times is temporary then exceptions can be set up to define occupation times for a specified period.

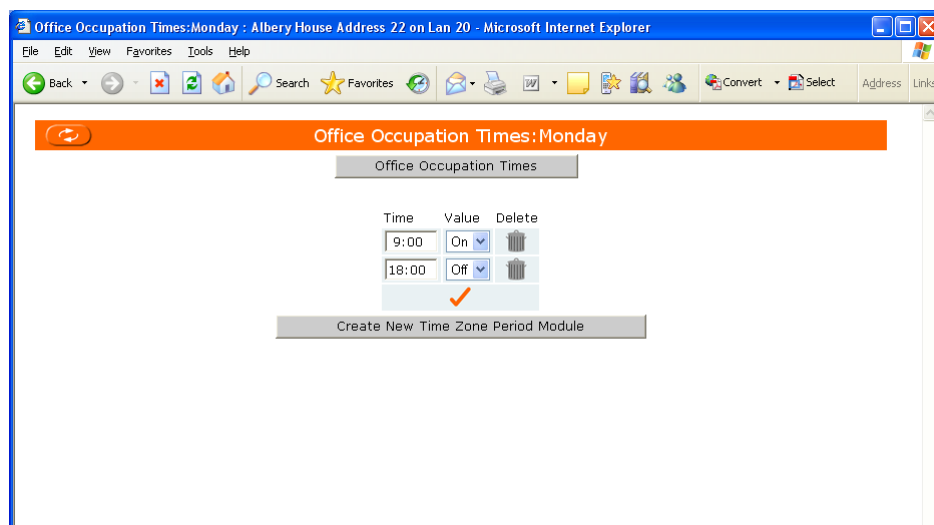
[Change Normal Occupation Times](#)
[Set up Exceptions](#)

4.3.4 Change Normal Occupation Times

The normal occupation times can be changed providing you have the appropriate level of authority for that timezone.

To change the normal occupation times:

1. View the normal occupation times as described in the '[View Normal Occupation Times](#)' section of this manual.
2. Click the day for which the occupation times are to be changed. A display similar to the one shown below will be displayed.



3. In the box in the **Time** column enter the start or stop time for a period type. To change the time from a start time to a stop time or from stop time to a start time in the box in the **Value** column click **On** or **Off**.

To add another period click **Create New Time Zone Period Module** another period will be added to the list enter the time, and specify whether it is a start or stop time. Unwanted periods can be removed by clicking .

Note that two periods should be added, one to switch occupation on, and one to switch it off.

4. Click .
5. Repeat for any other period that requires changing.




The occupation times for an entire day can be copied to other days as described in the 'Copying Occupation Times' section of this manual.

Using IQ3 From a Web Browser

4.3.4.1 Copying Occupation Times

The occupation times for one day can be copied to other days speeding up the process of setting up occupation times and exceptions. This is only possible if you have the appropriate level of authority.

To copy occupation times:

1. View the [normal occupation times](#), or [view the exception times](#) as described in the appropriate section of this manual.
2. Select the radio button in the  column next to the days whose occupation times are to be copied.
3. Select the check boxes in the  column next to the days to which the times are to be pasted.
4. Click .

4.3.5 Set up Exceptions

If the change to the normal occupation times is temporary then exceptions can be set up to define occupation times for a specified period.

[Add an Exception](#)

[Copy an Exception](#)

[Set up an Exception's Times](#)

[Set up an Exception's Parameters](#)

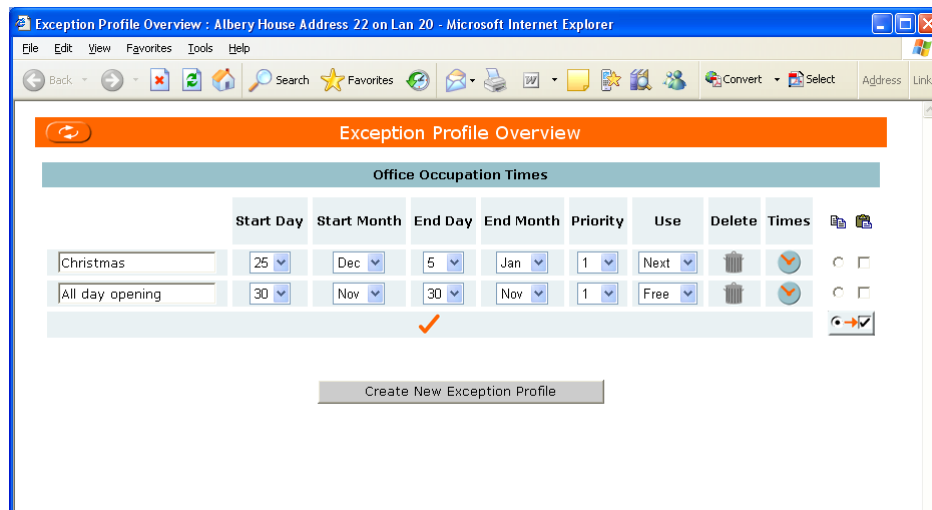
[Delete an Exception](#)


4.3.5.1 Add an Exception

If occupation times other than the normal times or existing exception is required other exceptions must be added. This is only possible if you have the appropriate level of authority.

To add an exception:

1. View the exceptions as described in the '[View Exceptions](#)' section of this manual.



2. Click **Create New Exception Profile**. The exception will be added to the list.
3. Click  to save the new exception.
4. Set up the exceptions occupation times as described in the '[Set up an Exception's Times](#)' section of this manual.
5. Set up the exception's parameters as described in the '[Set up an Exception's Parameters](#)' section of this manual.

Exceptions can be added by [copying an existing exception](#), and then editing it as required.

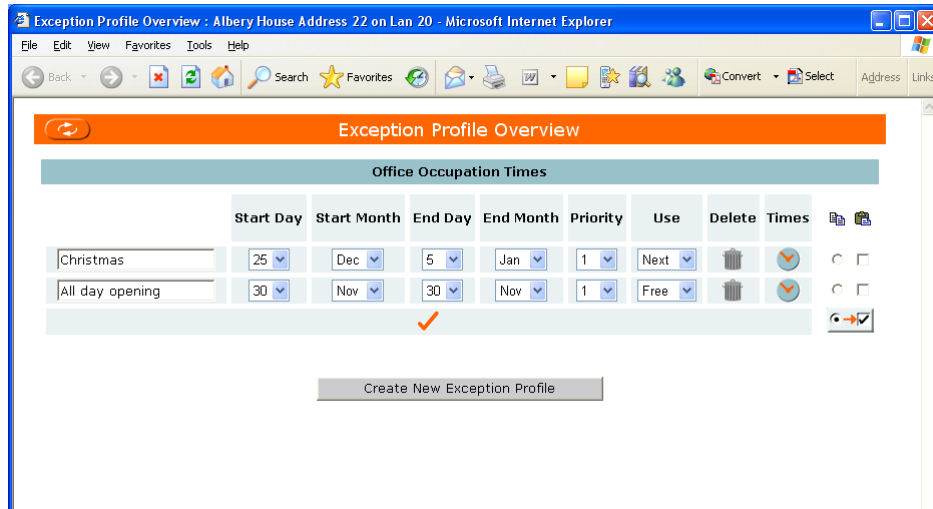
Note that adding an exception will take up extra memory in the controller therefore if there is not enough memory available the exception cannot be added.

4.3.5.2 Copy an Exception

All the parameters for an exception can be copied to another allowing one exception to be used as the base for another. This is only possible if you have the appropriate level of authority.

To copy an exception:

1. View the exceptions as described in the '[View Exceptions](#)' section of this manual.



2. Select the radio button in the column next to that is to be copied to be copied.
3. Select the check boxes in the column next to the exceptions to which the information is to be pasted.
4. Click

Note that adding an exception will take up extra memory in the controller therefore if there is not enough memory available the exception cannot be added.

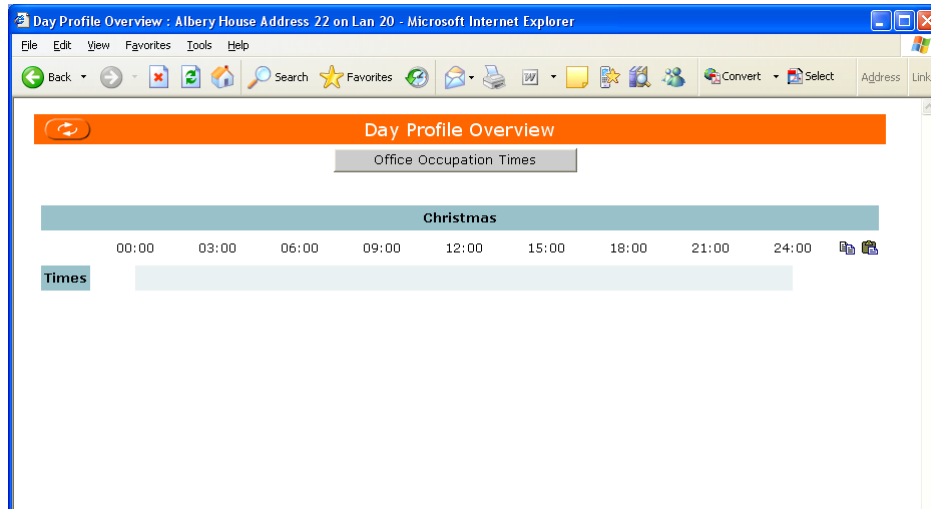
Using IQ3 From a Web Browser

4.3.5.3 Set up an Exception's Times

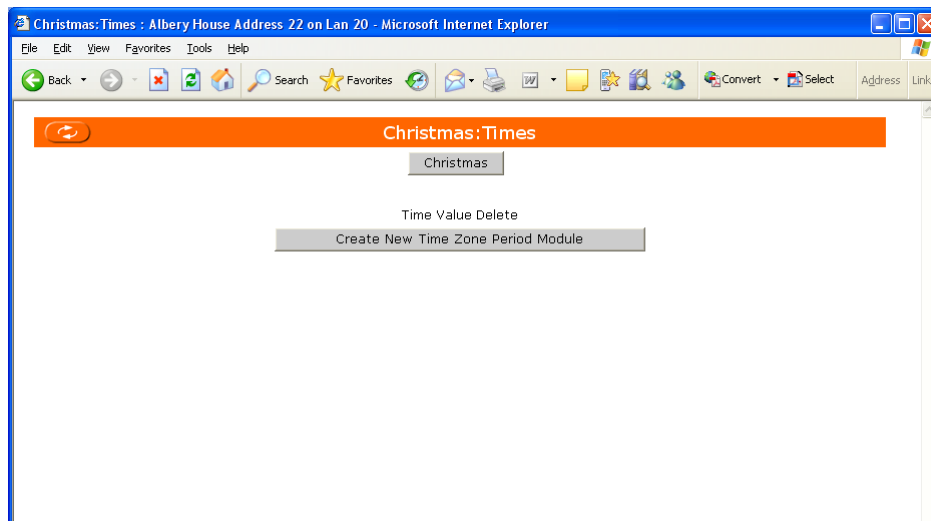
Once an exception has been added its occupation times must be set up. This is only possible if you have the appropriate level of authority.


To set up an exception's times:

1. View the exceptions as described in the '[View Exceptions](#)' section of this manual.




2. Click **Times**. The display shown below is displayed that enables the exception's parameters to be specified.



3. If there are no time periods set up, or to add another click **Create New Time Zone Period Module**. Unwanted periods can be removed by clicking  next to the period that is to be deleted.

Note that two periods should be added, one to switch occupation on, and one to switch it off.

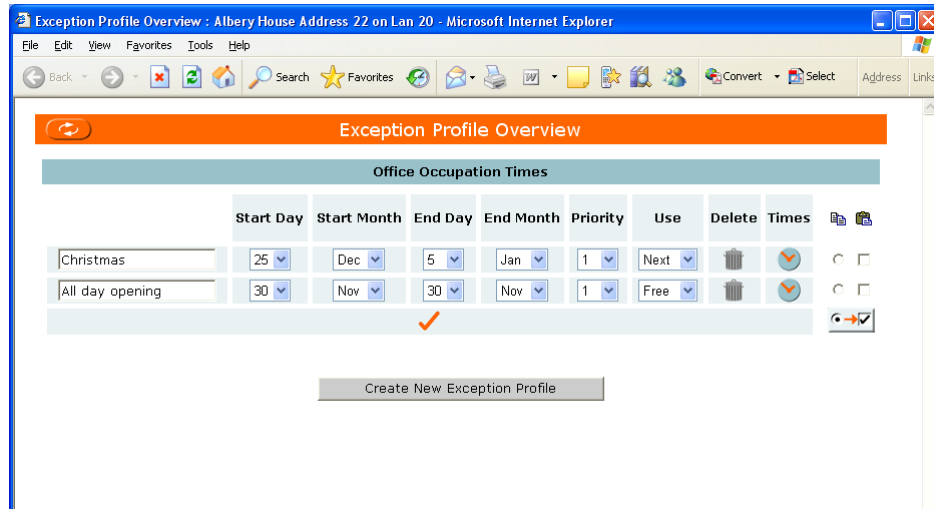
4. In the box in the **time** column enter the start or stop time for a period type. To change the time from a start time to a stop time or from stop time to a start time in the box in the **value** column click **On** or **Off**.
5. Repeat steps (4) and (5) until all the exception's times are correctly set.
6. Click .

4.3.5.4 Set up an Exception's Parameters

The exception's parameters must be defined to specify when the exception is to occur, whether it is to be repeated every year, and its priority. This is only possible if you have the appropriate level of authority.

To set up an exception's parameters:

1. View the exceptions as described in the '[View Exceptions](#)' section of this manual.



2. Enter a label for the exception in the left most box.
3. In the **Start Day** box click the day the exception times are to be first used.
4. In the **Start Month** box click the month the exception times are to be first used.
5. In the **Stop Day** box click the last day the exception times are to be used.
6. In the **Stop Month** box click the month for the exception is to end.
7. In the **Priority** box click the priority for the exception.

The priority parameter is used when two exceptions happen on the same day. The exception priority with the lower value will take precedence. E.g. priority of 1 takes precedence over 3. If there are exceptions with the same priority the exception that starts earliest takes precedence.

8. In the **Use** box click the required option to specify whether the exception is to occur once, is to be repeated each year, or is unused by selecting the required option from the list. **Every** cause the exception to be repeated each year, **Next** causes it to occur only once, and **Free** means it won't be used.
9. Click ✓ to send the changes to the controller.

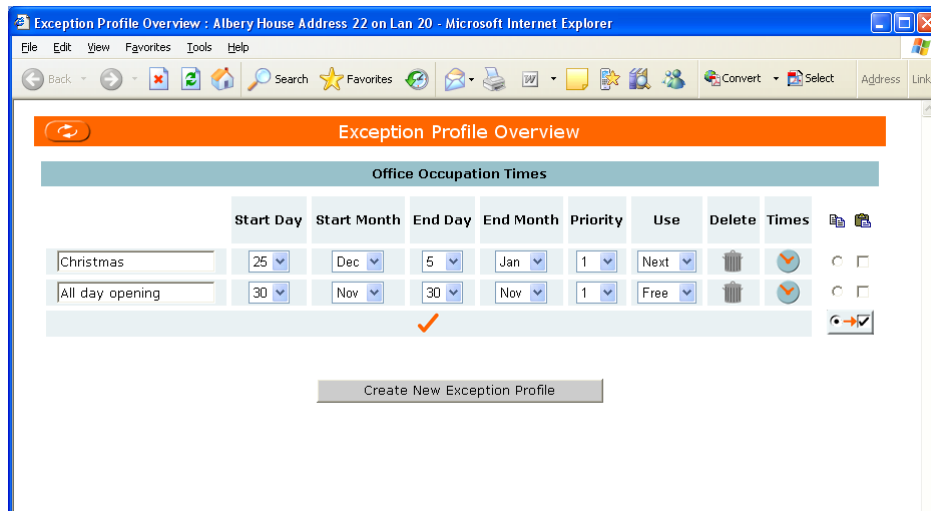
The exceptions times must be set up separately as described in the '[Set up an Exception's Times](#)' section of this manual.

4.3.5.5 Delete an Exception

Unwanted exceptions can be deleted. This is only possible if you have the appropriate level of authority.

To delete an exception:

1. View the exceptions as described in the '[View Exceptions](#)' section of this manual.



2. Click .
3. The controller will prompt for confirmation click **Yes**.

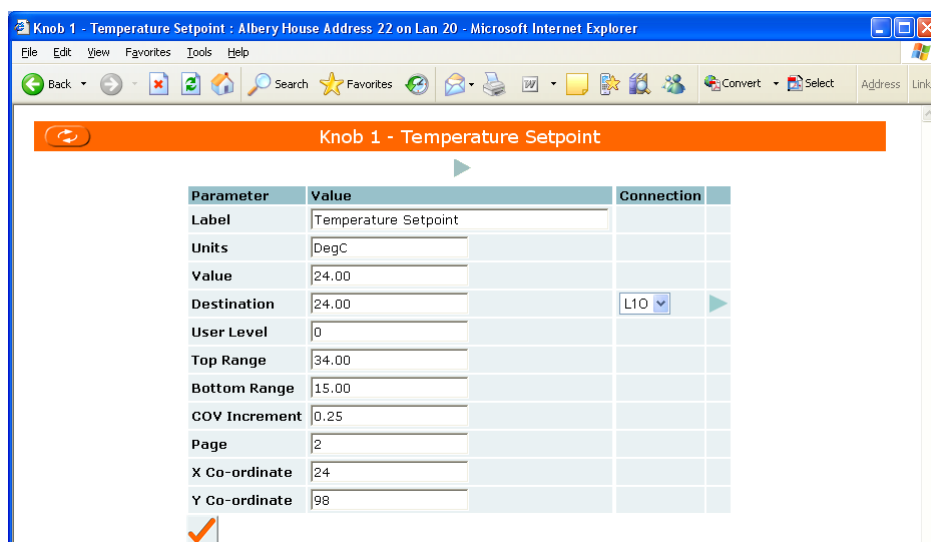
4.4 Adjust Values


4.4.1 Adjust a Knob's Value

The value of a knob can be adjusted providing you have the appropriate level of authority.

To adjust a knob's value:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Navigate to the [module details](#) page for the knob that is to be adjusted. A knob can be accessed from any display where its value is underlined by clicking it, or by clicking **Modules**, then clicking **Knobs**.



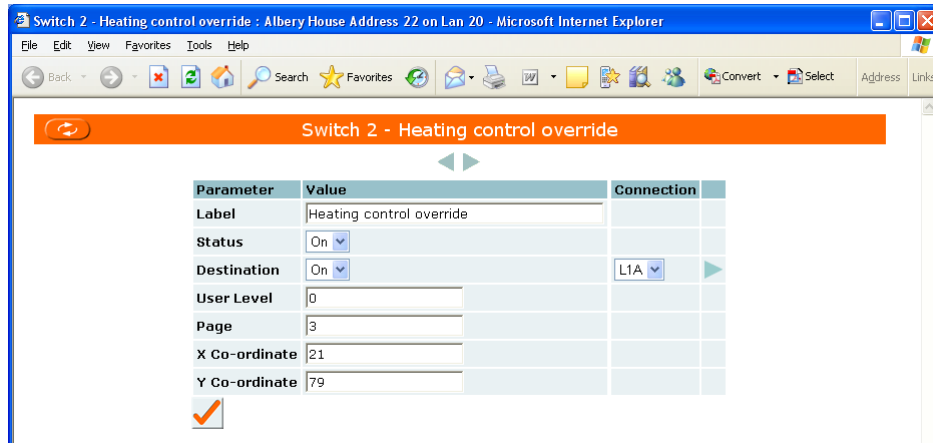
4. In the **Value** box enter the new value for the knob.
5. Click .

4.4.2 Adjust a Switch's Status

The status of a switch can be adjusted providing you have the appropriate level of authority.

To adjust a switch's status:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Navigate to the [module details](#) page for the switch that is to be adjusted. A switch can be accessed from any display where its value is underlined by clicking it, or by clicking **Modules**, then clicking **Switch**.



Parameter	Value	Connection
Label	Heating control override	
Status	On	
Destination	On	L1A
User Level	0	
Page	3	
X Co-ordinate	21	
Y Co-ordinate	79	

✓

4. In the box **Status** click the required status.
5. Click ✓ The value will be sent to the controller.

4.4.3 Adjust Module Parameters

The values of a module's configuration parameters can be adjusted providing you have the appropriate level of authority.

To adjust a module's configuration parameters:

1. Connect to the IQ3 controller as described in the '[Connect to the IO3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Navigate to the [module details](#) page for the module for which the configuration parameters are to be adjusted.

Parameter	Value	Connection
Label	Office AHU Heating Valve	
Disable Module	No	
Type	2: Analogue	
Override Output	No	
Override Value	0.00	
Active Priority Level	10	
Module Status	Normal	
Source	28.00	L1D
Value	28.00	
Power On Delay(secs)	0	
Readback Input	0	
Maintenance Input	0	
Readback	0	
Maintenance	0	
In Alarm	No Alarm	
Invert	Not Inverted	
Hardware Module	0	
HOA State	Auto	
In-Phase_Hardware Channel	0	
Anti-Phase Hardware Channel	0	
In-Phase Output(mV)	2800.00	
Anti-Phase Output(mV)	7200.00	

4. In the box next to the parameter that is to be adjusted in the **Value** column enter the new value for each of the module parameters that are to be adjusted.
5. Once all the required values have been made click ✓.

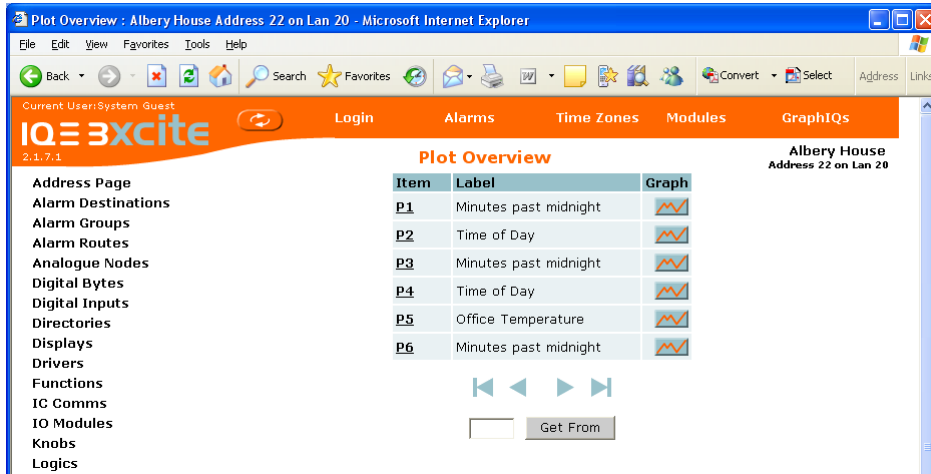
Note that only the module's parameters can be changed; changes to the strategy structure (i.e. module interconnections, and creation/deletion of modules) are not allowed.







4.5 Display a Graph


Graphs of data logged in the controller can be displayed. Any module with a  next to it can be graphed.

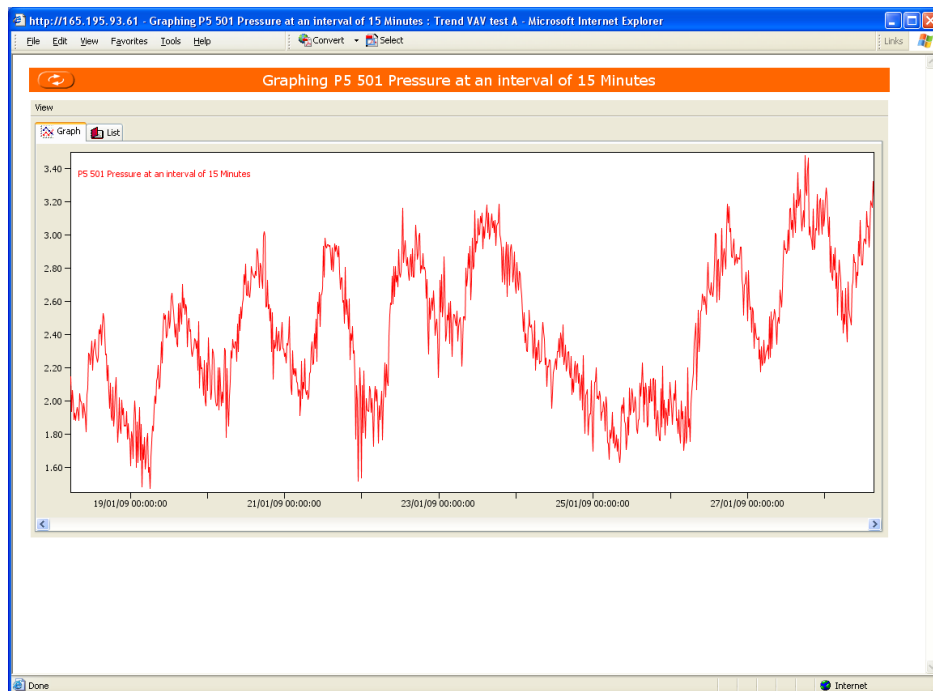
To display a graph of data logged in the controller:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Navigate to the [modules page](#) for the module for which logged data is to be graphed.



Item	Label	Graph
P1	Minutes past midnight	
P2	Time of Day	
P3	Minutes past midnight	
P4	Time of Day	
P5	Office Temperature	
P6	Minutes past midnight	

4. Click . The graph will be displayed as shown below.



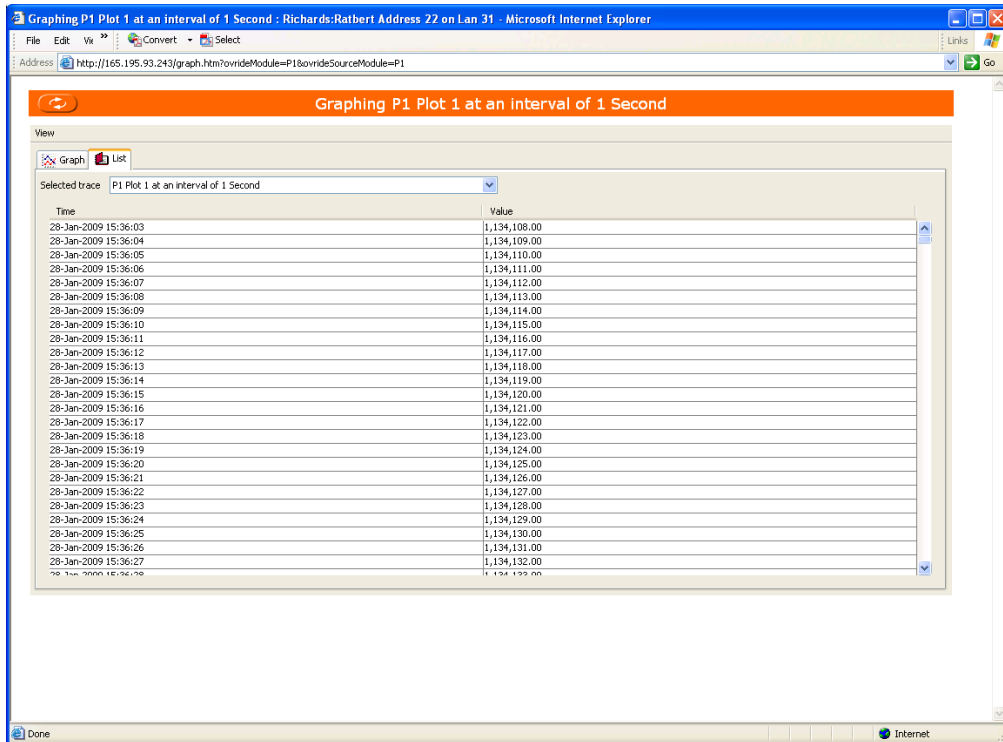
Clicking **List** displays the co-ordinates of the graph see the '[Display Graph Data](#)' section of this manual. The graph can be viewed in more detail by dragging the mouse over the required area of the graph see the '[Zoom in and Out of a Graph](#)' section of this manual for more details. To display the values for points on the graph as the mouse is moved press ALT+V or right click the graph and click **Show trace value window**. To display a horizontal grid on the **View** menu point to **Grid lines** and then click **Left** or **Right**, depending which axis is to be used for the grid. To display a vertical grid on the **View** menu point to **Grid lines** and then click **Time axis**.

4.5.1 Display the Graph Data

The co-ordinates of a graph can be displayed as a list of points.

To display the graph as a list of points:

1. Display a graph of the value for which the co-ordinates are to be displayed as described in the appropriate section of this manual.
2. Click **List**. The dialogue box shown below is displayed.



4.5.2 Zoom in and Out of a Graph

It is possible to zoom in and out on any graph so that the data can be more easily seen.

To zoom in on the graph:

1. Display the graph.
2. Click the mouse button and drag over the required area of the graph.
3. Release the mouse button.

To return to the original zoom level:

1. Press ALT+R, or right click the graph and click **Zoom to original**.

4.5.3 Formatting Graphs

4.5.3.1 Display a Grid on a Graph

A vertical and/or horizontal grid can be displayed on any graph. When a horizontal grid is selected, the grid can be based on either the left, or right hand axis.

To display a horizontal grid:

1. Display either a compact graph, or a precision graph as described in the appropriate section of this manual.
2. On the **View** menu point to **Grid lines** and then click **Left** or **Right**, depending which axis is to be used for the grid.

To display a vertical grid:

1. Display either a compact graph, or a precision graph as described in the appropriate section of this manual.
2. On the **View** menu point to **Grid lines** and then click **Time axis**.

4.5.3.2 Display a Point's Co-ordinates

The co-ordinates of points on the graph can be displayed in the trace value window. The window displays the time and value of the point closest to the position of the mouse, as the mouse is moved the value will change.

To display a point's co-ordinates:

1. Display either a compact graph, or a precision graph as described in the appropriate section of this manual.
2. Press **ALT+V** or right click the graph and click **Show trace value window**, or on the **View** menu click Show trace value window.
3. Move the mouse over the point whose co-ordinates are required.

4.6 Display 10 Modules From a Specified Module

The previous 10 modules of the selected type in the strategy can be displayed.

To display the next 10 modules from a specified module:





1. In the box next to **Get From** enter the required module.
2. Click **Get From**.

4.7 Display Other Modules

The first 10, previous 10, next 10, and last 10 modules of the selected type in the strategy can be displayed.

To display other modules:

1. Click the appropriate button.

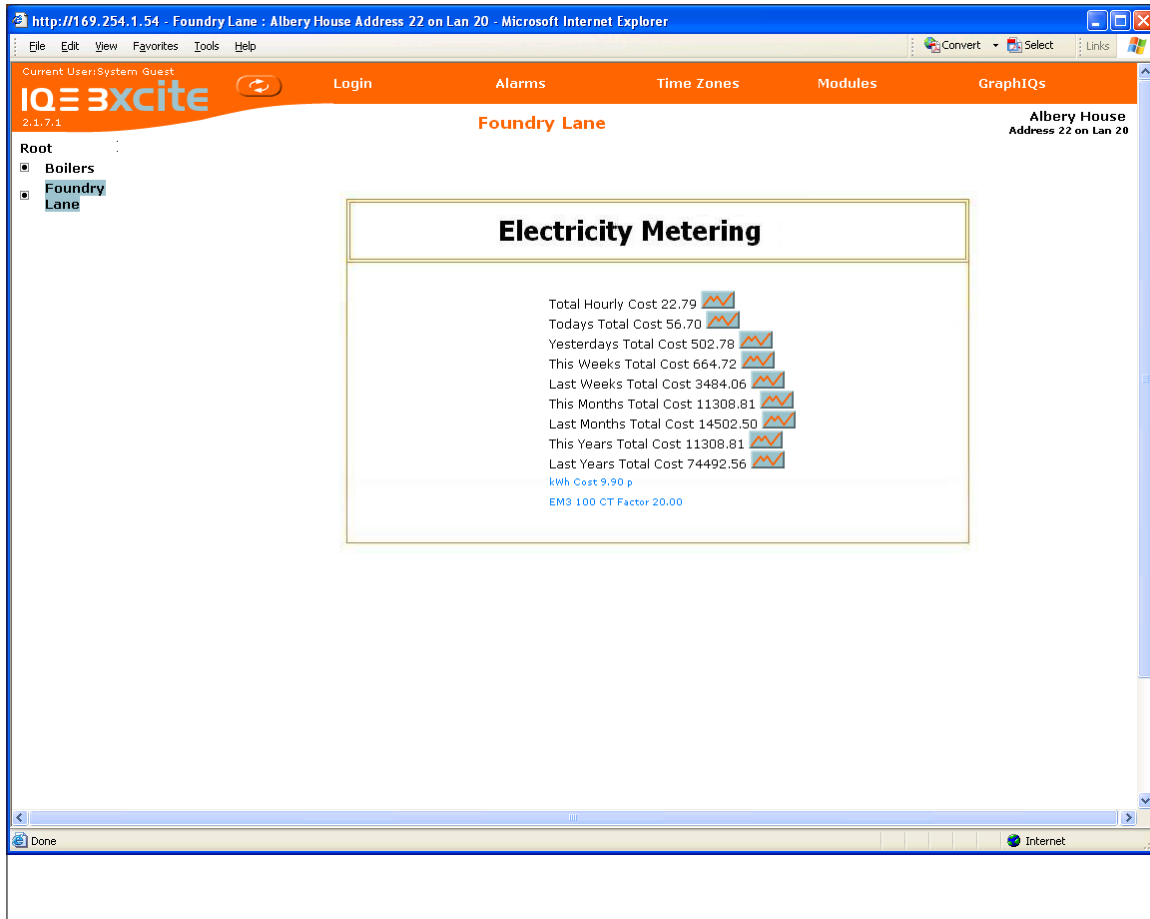
<i>Button</i>	<i>Description</i>
	First 10 modules
	Next 10 modules
	Previous 10 modules
	Last 10 modules

4.8 View Graphical Display Pages

The [Graphical Display Pages](#) provided a graphical way of viewing information from the IQ3 controller, and making changes. When you login a **Graphical Display Page** may be displayed otherwise you can access them by clicking **GraphIQs**.

To view graphical display pages:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Click **GraphIQs**. The top-level graphic display page is displayed.



*Note that a **Graphical Display Page** may be displayed when you login if the controller has been set up that way.*

4. Display the required page by clicking the directory containing the page in the **Navigator**, and then clicking the page name.
5. Once the page is displayed you will be able to view the information. If required access to the **Module Detail Page** for modules whose parameters are displayed on the page by clicking the parameter. Clicking text that is a line (underlined) will go to another web page. This depends on how the controller has been set up

*Note that only parameters that are displayed underlined can be clicked on to display the **Module Detail Page**.*

4.9 View the Alarm Log

The alarm log contains the source module reference (e.g. S1 for sensor 1), its label, the type of alarm (e.g. high), the value at the time of alarm, the time (time and date) the alarm occurred, the reported state (occurred or cleared), and the current state of the alarm message (whether it is active or completed).

To view the alarm log:

1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Click **Alarms**. The display shown below will be displayed.

The screenshot shows the 'Alarms Page' of the IQ3 web interface. The page title is 'Alarms Page' and the URL is 'http://165.195.93.230 - Alarms Page : DSG - IQ3 Test Strategy Address 20 on Lan 20'. The page features a navigation menu with 'Login', 'Alarms', 'Time Zones', 'Modules', and 'GraphIQs'. The main content is a table of alarm events.

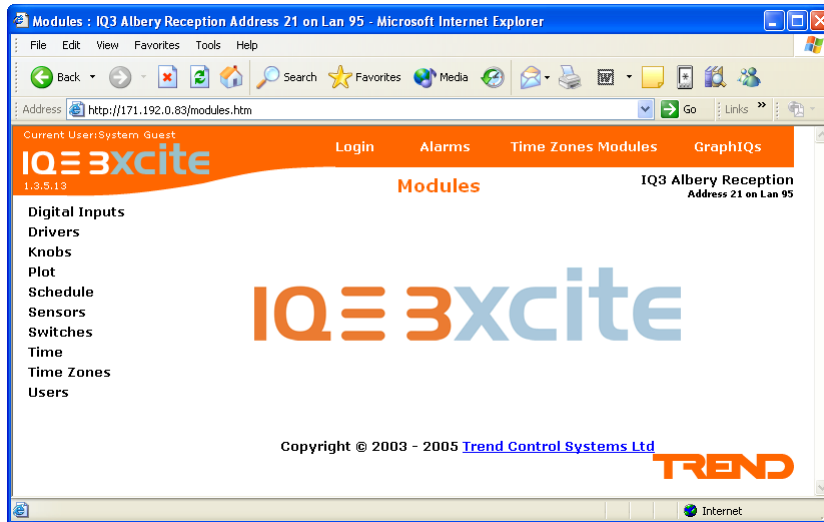
Module Ref	Module Label	Type	Value	Time	Transition	Current State
S1	Air Temperature	Low	27.086535	Dec 09 2008 2:32:50	Cleared	Sent
S1	Air Temperature	Low	26.999025	Dec 09 2008 2:32:32	Occurred	Sent
S1	Air Temperature	Low	27.095287	Dec 09 2008 2:31:42	Cleared	Sent
S1	Air Temperature	Low	26.999025	Dec 09 2008 2:31:33	Occurred	Sent
S1	Air Temperature	Low	27.077784	Dec 09 2008 2:30:40	Cleared	Sent
S1	Air Temperature	Low	26.990276	Dec 09 2008 2:30:14	Occurred	Sent
S1	Air Temperature	Low	27.095287	Dec 09 2008 2:29:54	Cleared	Sent
S1	Air Temperature	Low	26.999025	Dec 09 2008 2:28:54	Occurred	Sent
S1	Air Temperature	Low	27.086535	Dec 09 2008 2:28:48	Cleared	Sent
S1	Air Temperature	Low	26.999025	Dec 09 2008 2:27:01	Occurred	Sent
S1	Air Temperature	Low	27.095287	Dec 09 2008 2:26:50	Cleared	Sent
S1	Air Temperature	Low	26.990276	Dec 09 2008 2:25:37	Occurred	Sent
S1	Air Temperature	Low	27.095287	Dec 09 2008 2:25:24	Cleared	Sent
S1	Air Temperature	Low	26.990276	Dec 09 2008 2:24:22	Occurred	Sent
S1	Air Temperature	Low	27.095287	Dec 09 2008 2:24:04	Cleared	Sent
S1	Air Temperature	Low	25.817661	Dec 09 2008 1:04:35	Occurred	Sent
R1	DSG - IQ3 Test Strategy	Restart	0.000000	Dec 09 2008 0:46:00	Occurred	Sent
R1	DSG - IQ3 Test Strategy	Restart	0.000000	Dec 03 2008 16:12:23	Occurred	Sent
I2	Internal Digital Input	Off	1.000000	Dec 02 2008 10:13:25	Cleared	Sent
I2	Internal Digital Input	On	1.000000	Dec 02 2008 10:08:58	Occurred	Sent
R1	DSG - IQ3 Test Strategy	Restart	0.000000	Dec 02 2008 9:09:35	Occurred	Sent
R1	DSG - IQ3 Test Strategy	Restart	0.000000	Dec 02 2008 8:52:35	Occurred	Sent

4.10 View Module List Pages

Lists of the modules of each type that provide basic information about the module, and the facility to graph or adjust values can be displayed.



To view Module List Pages:


1. Connect to the IQ3 controller as described in the '[Connect to the IQ3 Controller](#)' section of this manual.
2. If you have a user name and password for the controller you should click **Login** to login now to ensure the controller presents you with information that is relevant to you as described in the '[Login](#)' section of this manual. This may cause the controller to display a different page.
3. Click **Modules**. The display shown below will be displayed.







Note that the modules in the list are dependent on your authority level. This ensures that the information you see is what is required.

4. Click the required module type on the left of the screen. The display will change to display the **Module List Page** containing the first 10 modules of that module type. The list will contain basic information about the module (e.g. module number, label, and value). This information will vary depending on module type as appropriate.

If the parameter has a  next to it, it can be graphed by selecting the required period for the graph in the list next to the icon, and then clicking .

The value of the parameter can be changed providing you have a high enough level of authority by entering the new value in the box and clicking  next to it.

Clicking  will display the first 10 modules of the type. Clicking  will display the previous 10 modules. Clicking  will display the next 10 modules. Clicking  displays the last 10 modules. To view 10 modules starting from a specified module enter the module number in the box next to the **Get From** button and then click **Get From**.

To display all of the parameters for a module click the module number. A new window containing all of the module's parameters is displayed.

4.11 View Module Detail Pages

The parameters of individual modules can be displayed on **Module Detail Pages**.


To view Module Detail Pages:



1. View the **Module List Page** for the required module type as described in the '[View Module List Pages](#)' section of this manual.
2. Click the module number. A new window containing all of the module's parameters is displayed.

Or

1. Click the module when it is displayed as a line (underlined). A new window containing all of the module's parameters is displayed.

Note that the parameters on the page are dependent on your authority level. This ensures that the information you see is what is required.

The values of the parameters can be changed by entering the new value in the box and clicking 



You can go directly to a module that is a destination or source of the current module by selecting the required module in the list next to source or destination parameter and clicking  to goto the destination module, or  to goto the source module. The display shown below will be displayed.

Clicking **Next** will display the parameters for next module, and clicking **Prev** will display the parameters for the previous module.

4.12 Goto the Associated Module

You can go directly to a module that is a source to, or destination of the current module. This enables you to move easily through the strategy.

To goto the associated module:

1. From the list next to the **Source** or **Destination** column click the required source/destination.
2. Click  to goto the destination, or  to goto the source module.

INDEX

A			
About			
IQ3	7		
This Manual	5		
Access IQ3 Controllers	17, 18		
Add			
Exceptions	24, 25		
Users	19, 20		
Adjust			
Knob Values	28		
Module Parameters	30		
Normal Occupation Times	23		
Occupation	24		
Switch Status	29		
Alarm Log	35		
Alarm Page	10		
B			
Basic Use	17, 18		
C			
Change			
Knob Values	28		
Module Parameters	30		
Occupation Times	23, 24, 25, 26		
Switch Status	29		
Connect to IQ3 Controllers	18		
Contacting Trend	6		
Conventions Used in this Manual	5		
Copy			
Exceptions	25		
Occupation Times	24		
D			
Delete Exceptions	28		
Display			
10 Modules From a Specified Module	33		
Exceptions	22		
Exception Times	23		
Graph Data	32		
Graphs	31		
Next 10 Modules	33		
Normal Occupation Times	21		
Occupation Times	21, 22, 23		
Other Modules	33		
Refresh	19		
E			
Edit			
Exceptions	24, 25		
Knob Values	28		
Module Parameters	30		
Occupation Times	23, 24		
Switch Status	29		
Exceptions			
Add	24		
Copy	25		
Delete	28		
Edit	26, 27		
Set up Parameters	27		
Set up Times	26		
View	22		
View Times	23		
G			
Goto Associated Modules	37		
Graph			
Data	32		
Display	31		
Zoom In	32		
Zoom Out	32		
Graphical Display Pages	14		
Graph Pages	15		
I			
IQ3 Controller			
Basic Use	17, 18		
Connect To	18		
Login	18		
Using from a Web Browser	17		
IQ3 Pages	9		
Alarm Page	10		
Graphical Display Pages	14, 34		
Module Detail Pages	13, 37		
Module List Pages	11, 12, 36		
L			
Login	18		
Log Out	19		
M			
Module Detail Pages	13, 37		
Module List Pages	11, 12, 36		
Module Parameters			
Edit	30		
View	37		
Modules			
Goto Destination	37		
Goto Source	37		
O			
Occupation Times			
Adjust	23		
Copy	24		
Set up	24		
View	21, 22		
R			
Refresh the Display	19		
S			
Set up			
Exception Parameters	27		
Exceptions	24		
Exception Times	26		
Source Module	37		
Switch Status	29		
U			
Users			
Add	19, 20		
Login	18		
Log Out	19		
Using IQ3 From a Web Browser	17		
V			
Value			
Adjust	28		
View			
Graphical Display Pages	34		
W			
Web Browser			
Using IQ3 From	17		
Z			
Zoom In	32		
Zoom Out	32		

Trend Control Systems Limited

Albery House, Springfield Road, Horsham, West Sussex, RH12 2PQ, UK. Tel:+44 (0)1403 211888 Fax:+44 (0)1403 241608 www.trendcontrols.com

Trend Control System USA

6670 185th Avenue NE, Redmond, Washington 98052, USA. Tel:(425) 869-3900 Fax:(425) 869-8445 www.trendcontrols.com
