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3D_ISS

**Integrated
Software
System**

**User Guide
Manual**

**Temperature Monitoring Any Time, Any Place
Technology Working For You**

3D Digital Design and Development Ltd - Integrated Software System User Guide

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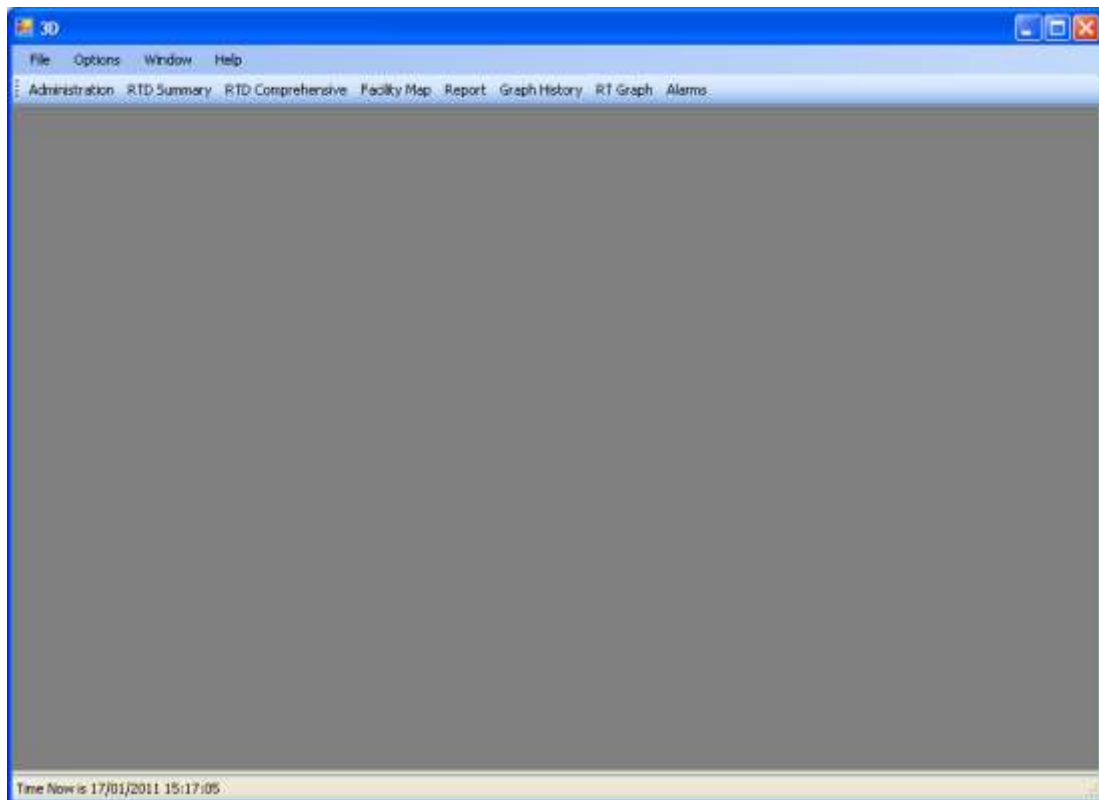
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Introduction

This manual is written for versions V 4.522 and later, earlier versions of the software may differ slightly

All references to the Wardwatch unit apply to the Air & Core unit as well.

The user manual assumes you have installed the software and have run and entered the username and password. You should have a screen similar to the one below.



The client software uses the same functionality as described in this manual. Some functions are not available in the client software.

Administration Tab

The administration tab allows you to set the unit and channel configuration and setup roles and users and is password protected.

Default Username: - admin

Default Password: - threed

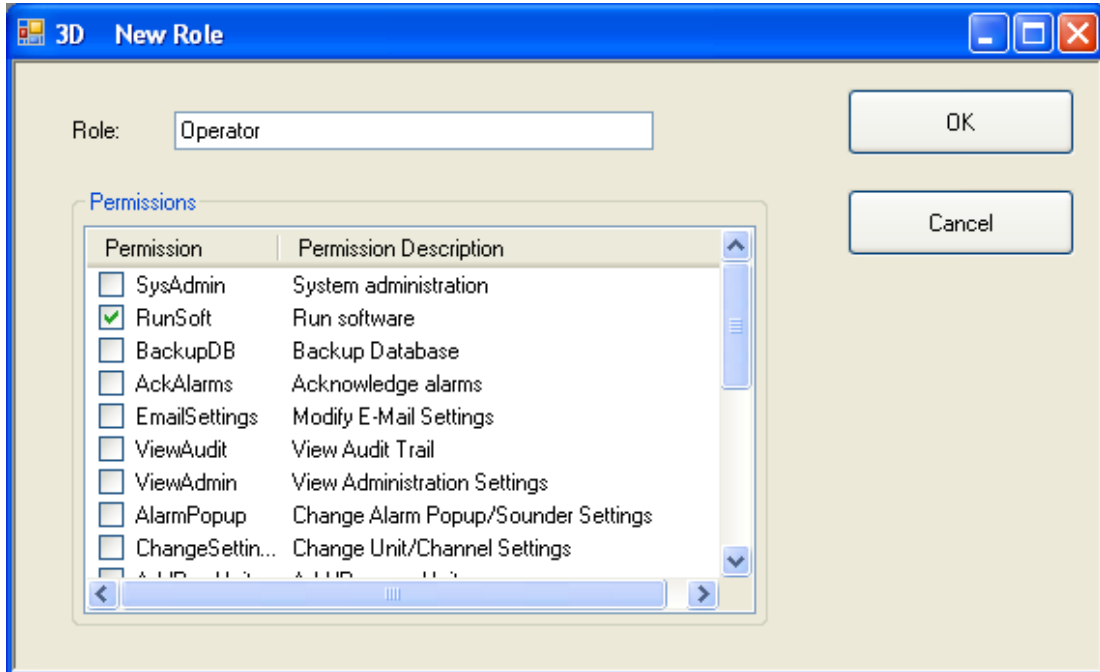
When you click on the Administration tab you will see a warning that the software is not logging data. The administration screen automatically closes after 5 minutes of with no activity.

The roles may be defined by the administrator; each role has a number of privileges which may include:

- System Administration Full access
- Run Software Login
- Close Software Close software
- Acknowledge Alarms Acknowledge alarms, clear warning screen
- Modify Email Settings Change Email & SMS Settings
- Add/Remove Units Add and remove units from software
- Add/Remove Users Add new users
- Modify Users Change user settings
- Add Modify Roles Add & modify roles
- Company Name Updated Change the company name
- Add Corrective Action Add corrective action details
- View Audit Trail View SMS & warning log, audit trail
- View Administration Settings Set offsets, check ASDA balance, view admin screens
- Control Alarm Popup Screen Settings Change alarm popup settings
- Change Channel/Unit settings External alarm settings, Password expiry length, SMS unit delay, Download from unit, Change channel & unit settings, Silence siren, Set unit time
- Backup Database Allows user to run a database backup
- Excel Settings Modified Change daily excel backup settings
- Database Update Settings Modified Change daily backup database settings
- Database/Server Path Update Clears the stored path of database, software will close and when re-run you will asked for server details again
- Unlock Software if invalid password has been entered 3 times software is locked, this privilege allows the user to unlock it

Roles

To create a new role, click on the Roles Tab and select Add Role. From the screen below enter the Role name and select the permissions for that role. Shown below and user given the Operator role will only be able to Run the software.



Users

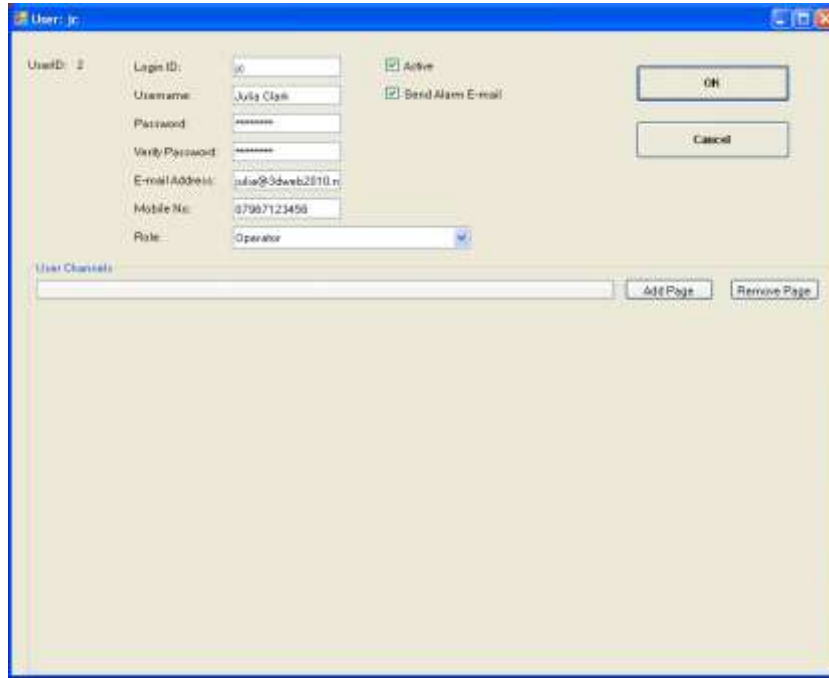
To setup a user and their associate roles select the Users tab.

From here you can double click on an existing user to change their details, or click on Add User.

Each user requires the following information.

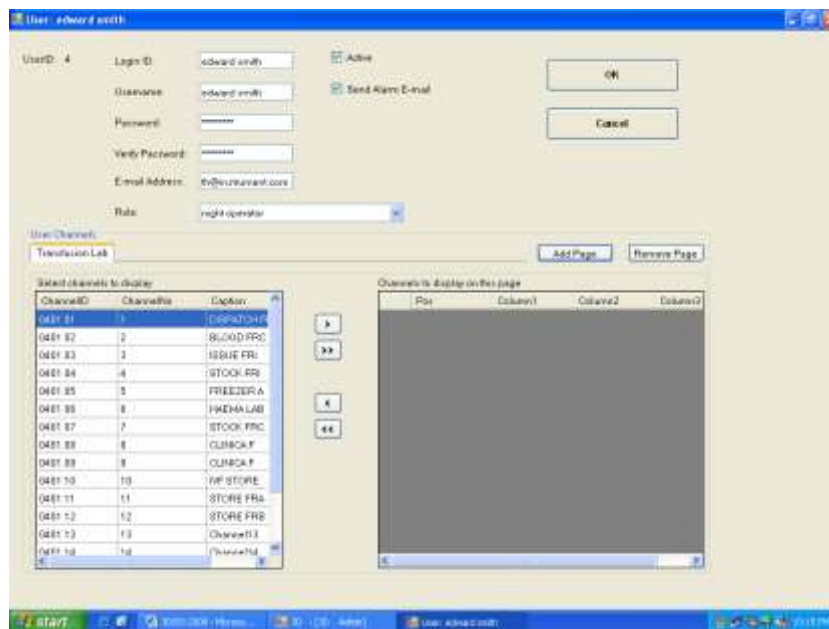
Login ID	This is the Username that will be entered on password screen
Username	This is displayed on the audit trail
Password	The password is usually 8 characters, this may a combination of numbers and letters, if you are using SMS acknowledgements, the passwords needs to be numeric
E-mail Address	If user requires alarm emails enter a valid address
Mobile No	If user requires alarm SMS enter a valid mobile number
Role	Select the role for the user, as explained above
Active	Sets the user to active, if not selected user will not be able to use the software, you will receive a warning if this is not enabled
Send Alarm E-mail	This must be selected for user to receive emails

Once the information above has been entered click the OK button and you will see the screen below.

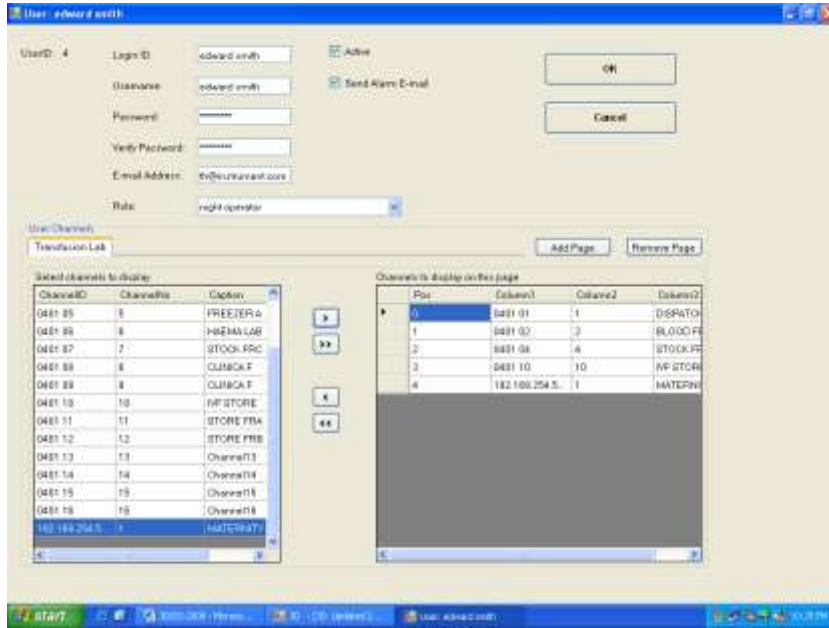


You can now the select the channels/readings this specific user may view, Click Add Page enter the page as Transfusion Lab. Now select the channels to be displayed when this user logs in.

Channel selection is done by high lighting the channel from the left hand list and then clicking the box marked > to moved these channels to the right hand list box, channels may be deselected by high lighting them from the right hand list and then clicking the box marked <.



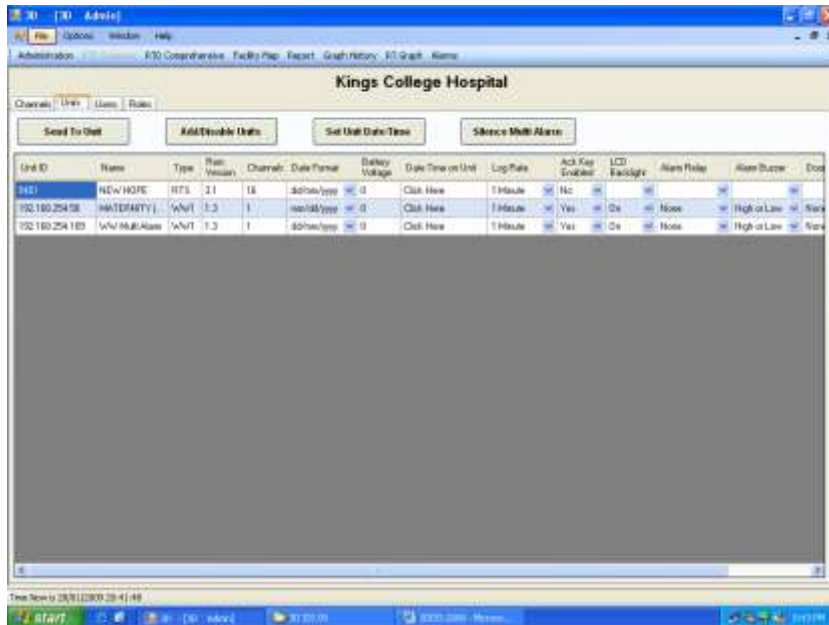
A typical user screen is shown below



The user parameters may be modified, however the user can not be removed from the database, but can be de-activated.

Units

The next stage is to configure the data logger hardware, from the Administration page click on units.



- Unit Name Hardware name
- Log Rate This can be set from 1 reading per minute to 1 reading every 240 minutes.
- Ack Key Enabled The alarm acknowledge key on the logger panel may be inhibited and the alarm may be acknowledged only from the host PC.
- LCD Backlight Wardwatch only, turn backlight on or off.

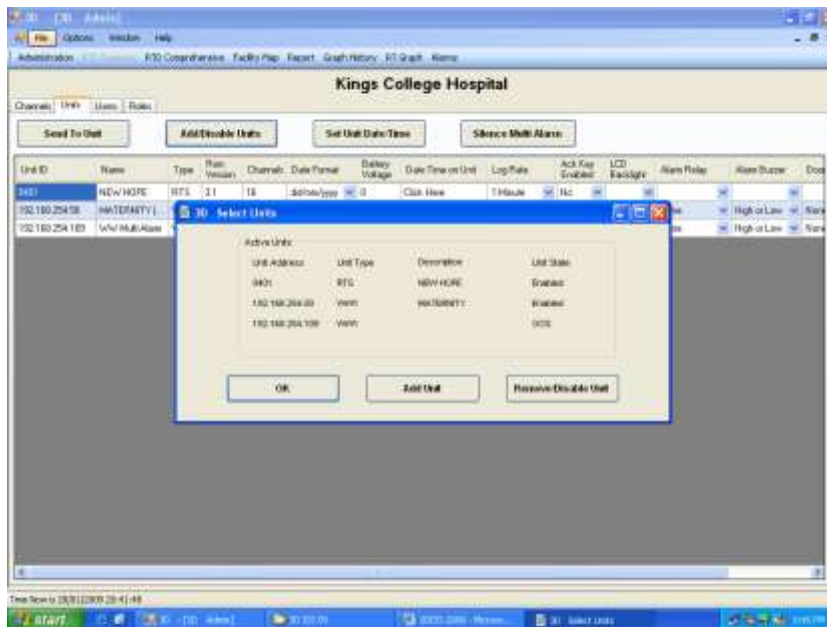
- Alarm Relay** You can specify when the Alarm Relay activates, either on High Alarm, Low Alarm or High or Low Alarm. None means Alarm Relay will not activate on any alarm condition.
- Alarm Buzzer** You can specify when the Alarm Buzzer activates as above for Alarm Relay.
- Door Relay** You can specify if the Door Relay is active, In alarm makes it active, None means the Door Relay will not be active.
- Door Buzzer** You can specify if the Door Relay is active, In alarm makes it active, None means the Door Relay will not be active.
- Latching** Unit will remember channel alarms, even if they are no longer in alarm. therefore channel will stay in alarm until Acknowledged.

When you have made all the changes required click the Send To Unit button (this will send all the changes made to the hardware and update the database), if you close the Administration screen without clicking Send To Unit you will be asked if you want to abandon changes.

The other options on this section are:-

- Silence Multi Alarm** If the Wardwatch External/Multi alarm unit is buzzing and there are no relevant channels in alarm, clicking this button will silence it. It will start to buzz again if there is a relevant channel in alarm.
- Set Unit Date/Time** This will set the date and time on each unit. This is also done automatically each month.
- Add/Disable Units** It also possible to add or disable hardware to stop the software communicating with them. Follow instructions below to add or disable a unit from the software.

To add or remove units click Add/Disable Units and the following screen will show:



This screen shows the current units which have been connected to the software and their state i.e. Enabled or OOS (Out Of Service)

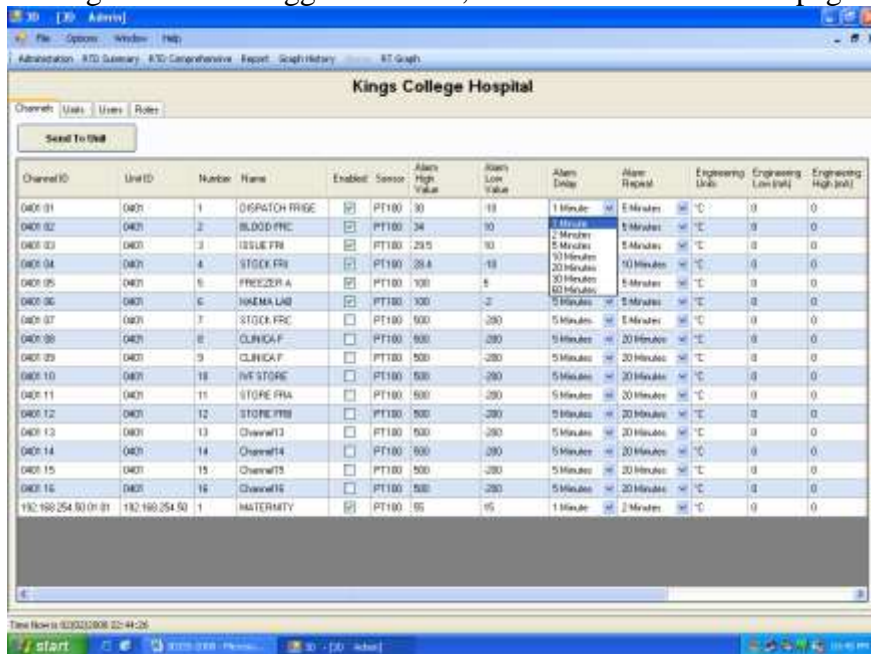
Click on Remove/Disable Unit and select the unit you would like to remove from the box shown below then click Unit out Of Service, you will be asked to confirm this action, then you will receive a message to state the unit is now out of service. When you close this screen the software will shut down and needs to be restarted. If you are running client software, it too will need to be restarted if units have been added or removed.



To Add or Reinstate a unit that has been disabled, Click on Add Unit and follow the instructions in the 3DISS-2011_MANUAL.doc on how to Add a Unit. If the unit you are adding has previously been used in the software you will be asked if you want to re-instate it. If you click Yes the unit will be added and when the software is re-run it will attempt to download all the missing days data from the unit since it was last connected. If you click no the unit will not be connected to the software.

Channels

The next stage is to configure the data logger channels, from the Administration page click on Channels.



Name	Channel Name, this is displayed on the Real Time Display (max 20 characters, only 1 st 9 characters are sent to unit).
Enabled	If not ticked the channel readings will not be taken and N/A will be shown on the Real Time Display.
Sensor	(TL4 only) change sensor type either PT100 or mA.
Alarm High Value	High value that will trigger the channel into alarm delay then alarm (+200° to -200°).
Alarm Low Value	Low value that will trigger the channel into alarm delay then alarm (+200° to -200°).
Alarm Delay	Length of time channel can be out of High or Low alarm limits before software and unit activate alarm (between 1 and 240 minutes).
Alarm Repeat	If channel is in alarm and has been acknowledged this is the length of time to wait before reactivating the alarm (between 1 and 240 minutes) if set to OFF the alarm will stay in Acknowledged state until cleared.
Engineering Units	(TL+, RTS & TL4 only) if sensor type is mA the engineering units can be changed to something of your choice (max 3 characters)
Engineering Low	(TL+, RTS & TL4 only) if sensor type is mA this can be changed
Engineering High	(TL+, RTS & TL4 only) if sensor type is mA this can be changed
Door Status	(TL+, RTS & TL4 only), see Door Status Configuration information below.
Door Trigger	(Wardwatch only) determines whether alarm is triggered when door is Open or Closed (default Open door will be in alarm when Open)
Door Alarm Delay	(Wardwatch only) length of time door can be in trigger state before software and unit activate alarm (between 1 and 240 minutes).
Door Alarm Repeat	(Wardwatch only) if door is in alarm state and has been acknowledged this is the length of time to wait before reactivating the alarm (between 1 and 240 minutes) if set to OFF the alarm will stay in Acknowledged state until cleared.

If a channel is configured to accept process signal in the range 4 mA to 20 mA then the engineering unit may be set to suit the specific sensor i.e. if a Relative Humidity sensor is used, then 4mA = 0RH% and 20 mA= 100RH%, or if a low differential pressure is used, then 4 mA= 0 Pa and 20 mA= 60 Pa.

When you have made all the changes required click the Send To Unit button (this will send all the changes made to the hardware and update the database), if you close the Administration screen without clicking Send To Unit you will be asked if you want to abandon changes

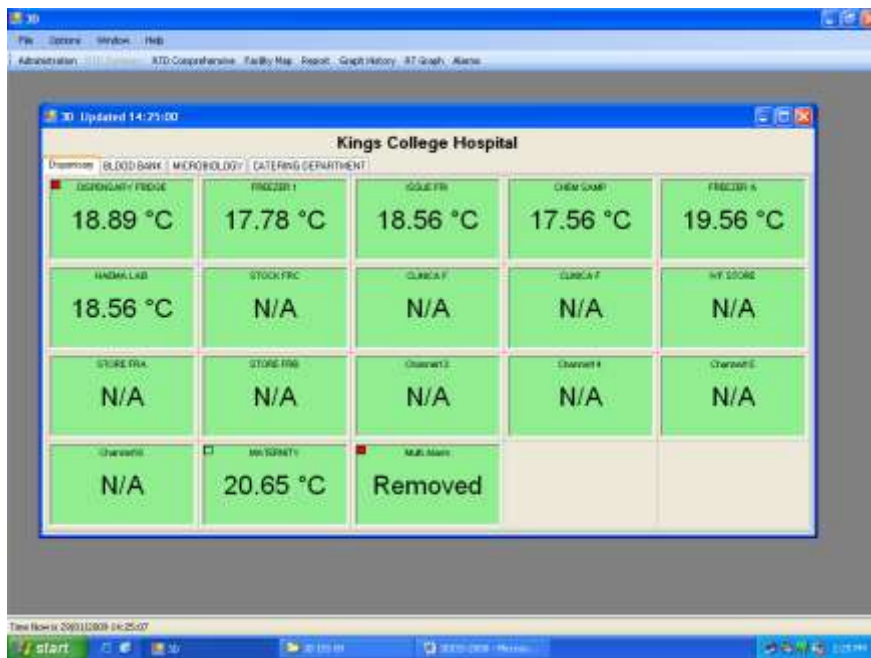
Door Status Configuration:- The TL+, RTS and Tempulog4 support door status as explained below

Ignore	Ignores the door state.
Low	Activates alarm delay when door contact is closed.
High	Activates alarm delay when door contact is open.
Digital	Does not generate alarm, but records the change in state, see Door Report.
External Alarm Low	Same as Low state but alarm is instant (No Delay is used).
External Alarm High	Same as High state but alarm is instant (No Delay is used).

The Real Time Display will not display the door status if Ignore is selected. A small green box in the top left box shown below shows the 1st channel door status is closed.



A small red box in the top left box shown below shows the 1st channel door status is open.



RTD Summary Tab

The RTD Summary tab allows you to view the current readings. Click on RTD and the following screen will be displayed.

The company name is shown at the top this is programmable, see File Menu instructions

If you are using the default login settings all the channels will be displayed, if you have created a user and logged in as them, you will only see the channels added and tabs created on the Users setup screen.



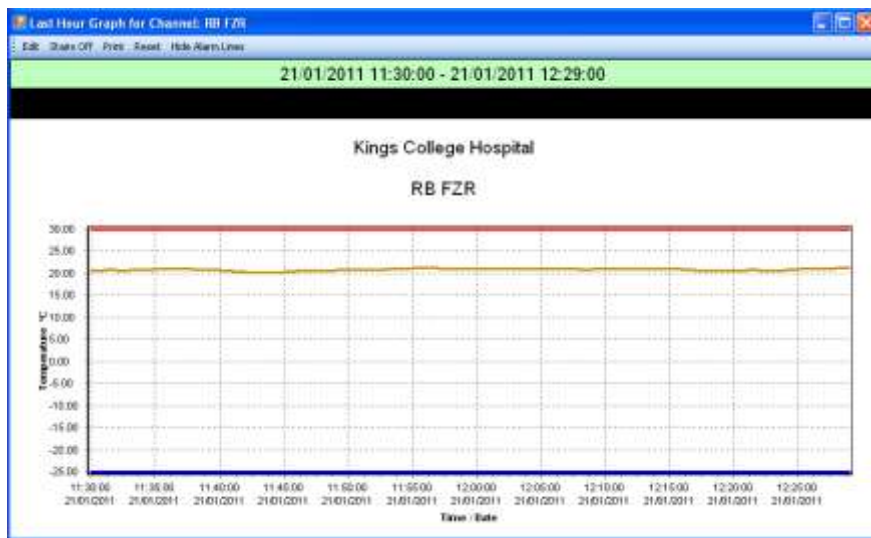
This screen displays the channel names, current temperature, Door state if applicable and Alarm condition of the active channels.

N/A	Channel set to Not Active on the administration settings
Removed	Unit no longer connected to the software, return to users setup and remove channel.
FAULT	Channel is in a fault condition – possible probe failure.
RXERR	Transmitter not communication with receiver, possible battery failure.
C-ERR	Communications between unit and software have encountered a problem, please check Connections.

Background Colours:-

Green	Channel within alarm limits
Orange	Channel out of alarm limits but alarm delay not yet expired therefore in Alarm Delay
Red	Alarm delay expired or alarm repeat activated and channel in alarm.

If you double click on one the display tiles, a graph showing the last hours readings will be displayed as shown below:-



The last hour graph menu options are:-

- | | |
|------------------|---|
| Edit | From the Edit option you can change the background colour, axis colour, channel colour and channel line thickness as required, this information is stored and all facility graphs will use the settings chosen. |
| Stairs Off/On | Stairs off will draw one point directly to the next. |
| Print | Give the option to print each graph in turn each on a separate page |
| Reset | This will reset the graph after any zooming, to zoom on the graph hold the left mouse button on a section of the graph and move down and to the right (you will see a box displayed marking the area to be zoomed) release the mouse button to see zoomed area. |
| Hide Alarm Lines | The alarm lines are the current low and high alarm values shown on graph as Red and Blue lines, you can choose whether these are displayed or hidden. |

RTD Comprehensive Tab

The RTD Comprehensive tab allows you to view the current and states of all the channels. Click on RTD Comprehensive and the following screen will be displayed.

ID	Name	Last Reading Date/Time	Reading	Door	Door Alarm State	Alarm Low Value	Alarm High Value	Alarm Acknowledged	Alarm High State	Alarm Low State	Door Acknowledged
257	Channel 1	19/01/2011 16:59	FAULT	CLOSED	OK	-10	200	ALARM	HIGH	OK	NO ALARM
258	Drivers	19/01/2011 16:59	FAULT	OPEN	OK	-2	30	ALARM	HIGH	OK	NO ALARM
259	Croissant	19/01/2011 16:59	30.22	OPEN	OK	-2	15	ALARM	HIGH	OK	NO ALARM
260	Dairy	19/01/2011 16:59	24.11	OPEN	OK	40	60	ALARM	OK	LOW	NO ALARM
261	AIR RIGHT	19/01/2011 16:59	FAULT	OPEN	OK	5	10	ALARM	HIGH	OK	NO ALARM
262	DOWN CHES	19/01/2011 16:59	FAULT	OPEN	OK	22	30	ALARM	HIGH	OK	NO ALARM
263	LB FZR	19/01/2011 16:59	FAULT	OPEN	OK	-25	30	ALARM	HIGH	OK	NO ALARM
264	RB FZR	19/01/2011 16:59	22.11	OPEN	OK	-25	30	NO ALARM	OK	OK	NO ALARM
265	DwN FREEZ	19/01/2011 16:59	FAULT	OPEN	OK	-25	30	NO ALARM	DELAY	DELAY	NO ALARM
266	DwN FRIG	19/01/2011 16:59	FAULT	OPEN	OK	-2	30	NO ALARM	DELAY	DELAY	NO ALARM
267	UP FRZR	19/01/2011 16:59	FAULT	OPEN	OK	-27	30	NO ALARM	DELAY	DELAY	NO ALARM
268	UP CHEST	19/01/2011 16:59	FAULT	OPEN	OK	-27	30	NO ALARM	DELAY	DELAY	NO ALARM
269	LEFT AIR	19/01/2011 16:59	FAULT	OPEN	OK	10	50	NO ALARM	DELAY	DELAY	NO ALARM
270	Channel14	19/01/2011 16:59	FAULT	OPEN	OK	-100	200	ALARM	HIGH	OK	NO ALARM
271	Channel15	19/01/2011 16:59	FAULT	OPEN	OK	30	200	ALARM	HIGH	OK	NO ALARM
272	Channel16	19/01/2011 16:59	FAULT	OPEN	OK	-100	200	ALARM	HIGH	OK	NO ALARM
769	Channel 1	19/01/2011 16:59	22.02	CLOSED	OK	-200	200	NO ALARM	OK	OK	NO ALARM

This screen displays the following information:

Name	Channel Name.
Last Reading Date/Time	Time & Date last reading was taken.
Reading	Channel reading.
Door	Door Status i.e. OPEN or CLOSED.
Door Alarm Status	OK (No alarm) or Alarm.
Alarm Low Value	Value to trigger low alarm at.
Alarm High Value	Value to trigger high alarm at.
Alarm Acknowledgement	No alarm, Alarm or Yes (if acknowledged).
Alarm High State	OK (no alarm), HIGH (in high alarm), and DELAY (in alarm delay).
Alarm Low State	OK (no alarm), LOW (in low alarm), and DELAY (in alarm delay).
Door alarm acknowledged	No Alarm, Alarm, YES (if acknowledged).

Facility Map Tab

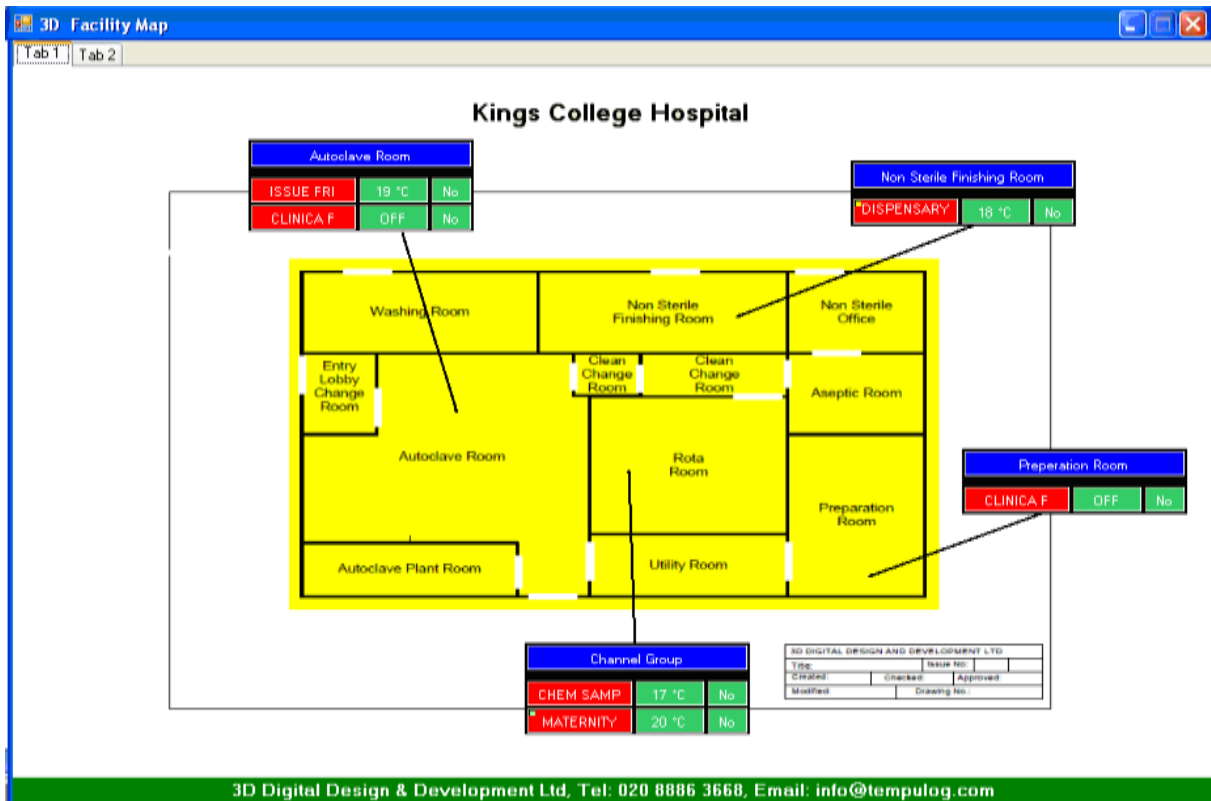
The facility map allows the user to display a number of channels superimposed on an image or schematic layout (.jpg, .bmp) for example, you could upload an image of your site a position channels in their actual location.

When the screen is loaded you will see a blank page with the company name at the top. To add more tabs right click in the white area and select Add Tab (you will be asked to name the tab). You will now have two tabs above the company name. To remove the last tab select Remove Last Tab after right clicking and the tab on the right will be deleted.

To change the name of a tab 1st select the tab required then right click on the screen and select Change Tab Name, you will be asked to enter a name for the tab.

Other Menu Options (right click for background for menu)

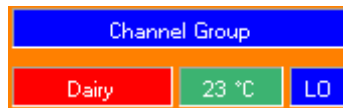
- Add Group Box A group box can have up to 3 channels added to it.
- Insert Graphic Add a jpg graphic to your display.
- Increase Graphic Size Increases the graphic loaded by 5% (up to 100%).
- Decrease Graphic Size Decreases the graphic loaded by 5% (down to 20%).
- Mark Position on Graphic This is used to add arrows from a group box, explained later.
- Remove all Removes all controls and graphic from current tab.



Once you have added a graphic, and added some group boxed you can right click on the group box caption to see a new menu, details as follows

- Add Channel When you click on Add Channel you see la list of channels available to add to this display, up to 3 can be added to each group box.
- Remove Display Removes the group box, channels and all arrows connected to it.

Change Background Colour Changes the background colour of the group box shown below as Orange.



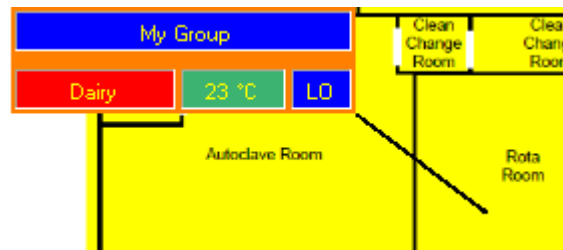
Change Text Colour Changes the text colour of the group box, shown below as Yellow.



Change Title Changes the title of the group box, shown below as My Group.

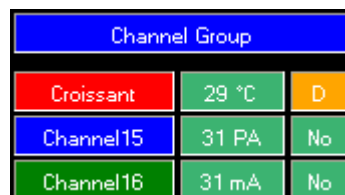


Start of Arrow If you would like to draw an arrow from the group box to an area on the graphic, 1st right click the area on the graphic and select Mark Position on Graphic then right click in the title of the group box and select Start of Arrow.



Remove Arrow Removes the arrow from the group box to the graphic.

Temperature channels will be displayed in Red (engineering units °C or °F)
 Pressure channels will be displayed in Blue (engineering units PA)
 Relative Humidity or mA channel will be displayed in Green (engineering units none of the above)

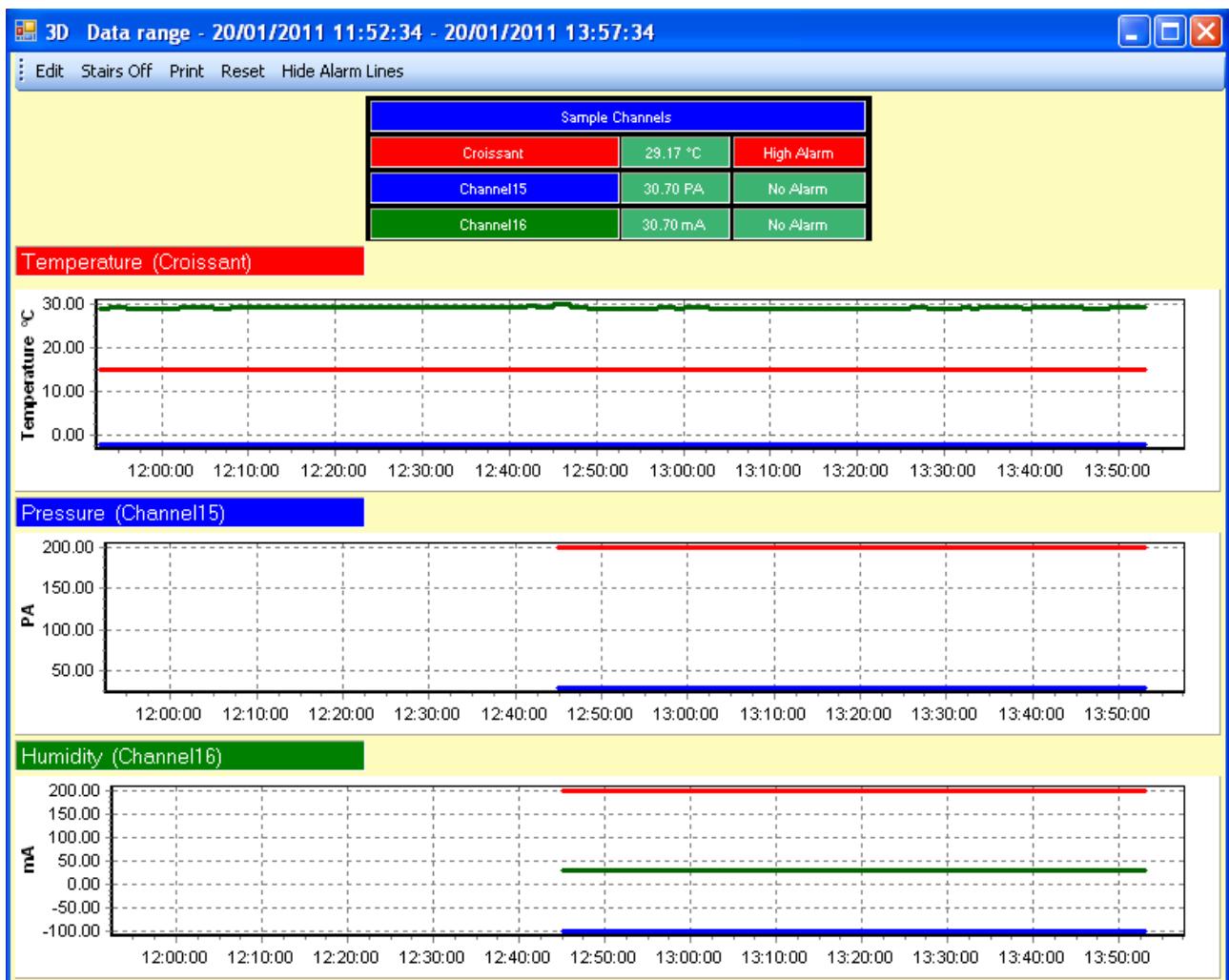


The Group box may be moved by holding the left mouse on the boundary under the group box title and moving it to the new location.

The 1st box will show the channel name, the 2nd box will show the reading to 0 decimal places and the 3rd box shows the alarm state.

- Orange D Alarm Delay
- No No Alarm
- HI High Alarm
- LO Low alarm
- XH External High
- XL External Low
- ACK Alarm Acknowledged

You can click on the Group box title and the software will load a graph for the channels showing the last two hours data as shown below. The graph will be updated each minute with the current data.



The facility graph menu options are:-


- Edit From the Edit option you can change the background colour, axis colour, channel colour and channel line thickness as required, this information is stored and all facility graphs will use the settings chosen.
- Stairs Off/On Stairs off will draw one point directly to the next.
- Print Give the option to print each graph in turn each on a separate page
- Reset This will reset the graph after any zooming, to zoom on the graph hold the left mouse button on a section of the graph and move down and to the right (you will see a box displayed marking the area to be zoomed) release the mouse button to see zoomed area.
- Hide Alarm Lines The alarm lines are the current low and high alarm values shown on graph as Red and Blue lines, you can choose whether these are displayed or hidden.

Reports Tab

The reports tab allows the user a variety of ways of viewing channels data. There are the following options.

Readings	Displays logged readings of selected channels over a selected period.
Summary	Displays maximum, minimum and average readings over a selected period.
Summary with MKT	Same as summary but includes Mean Kinetic Temperature.
Events	Displays channel events (alarms) over a selected period.
Door	Displays door events over a selected period.

When you click on the reports tab you will see the following













Select the Start and End date. You can type the date, use the up and down arrows to change the date or click on the  and select the date from the calendar displayed.

Next select the type of report from the list at the bottom of the screen above.

You can then select the channels you would like to view in the report; the reading report is limited to a maximum of 6 channels, all other reports can view as many channels as you wish. The option to select all or clear the channels chosen is displayed under the end date if the readings report is NOT selected.

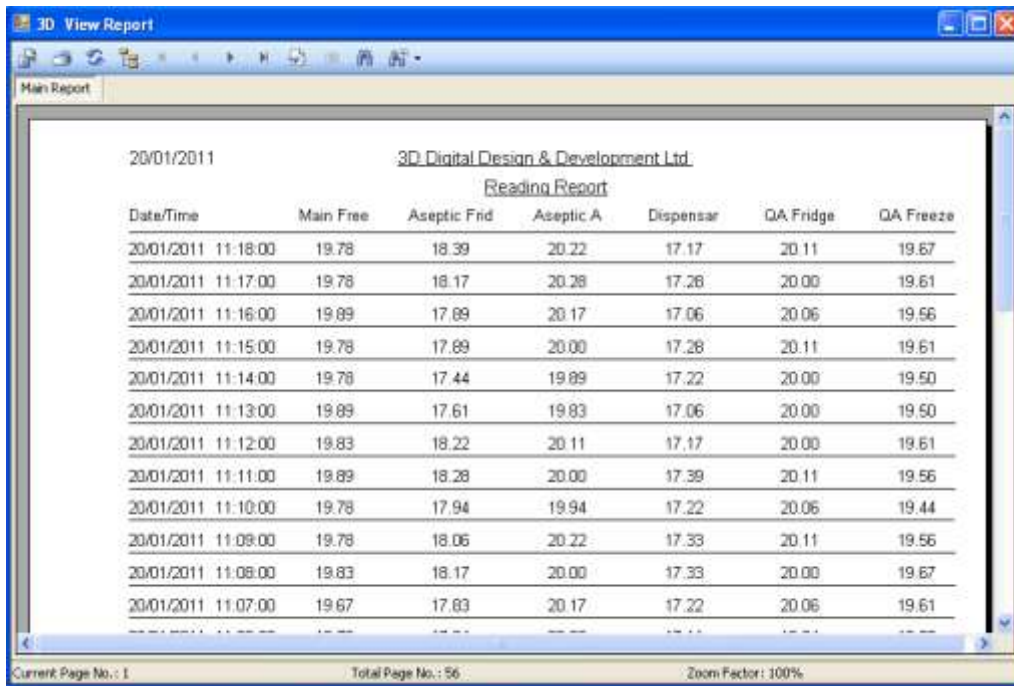
All reports have the following toolbar across the top, the icons perform the following functions



	Export report	Allows you to export the report select the type from the Save as type box that will be displayed when Export icon is pressed, enter a filename and select a location to save in. File types options are:- <ul style="list-style-type: none"> • Crystal Reports (*.rpt) • Adobe Acrobat (*.pdf) • Microsoft Excel (*.xls) • Microsoft Excel Data Only (*.xls) • Microsoft Word (*.doc) • Rich Text format (*.rtf)
	Print report	Pop up the standard windows print dialog box.
	Refresh	Reloads the report.
	Toggle group tree	When viewing a summary report grouped by date, clicking the toggle button will display the list of dates on the left hand side, allowing you click on them to jump to areas of the report.
	Go to 1 st page	Will return to the 1 st page of the report.
	Go to previous page	Will return to the previous page of the report.
	Go to next page	Will go to the next page of the report.
	Go to last page	Will go to the last page of the report.
	Go to page	Will show a select page box, to allow you to choose a page to view.
	Close current view	This is not used
	Find text	This open a dialog box for you to enter test you would like to search for, once found you can continue to click on Find Next to jump to next location of text entered.
	Zoom	Displays a drop down box of view options available, i.e. Page width, Whole page, 50%...

Reading Report

The following screen will be displayed:



Date/Time	Main Free	Aseptic Frid	Aseptic A	Dispensar	QA Fridge	QA Freeze
20/01/2011 11:18:00	19.78	18.39	20.22	17.17	20.11	19.67
20/01/2011 11:17:00	19.78	18.17	20.28	17.28	20.00	19.61
20/01/2011 11:16:00	19.89	17.89	20.17	17.06	20.06	19.56
20/01/2011 11:15:00	19.78	17.89	20.00	17.28	20.11	19.61
20/01/2011 11:14:00	19.78	17.44	19.89	17.22	20.00	19.50
20/01/2011 11:13:00	19.89	17.61	19.83	17.06	20.00	19.50
20/01/2011 11:12:00	19.83	18.22	20.11	17.17	20.00	19.61
20/01/2011 11:11:00	19.89	18.28	20.00	17.39	20.11	19.56
20/01/2011 11:10:00	19.78	17.94	19.94	17.22	20.06	19.44
20/01/2011 11:09:00	19.78	18.06	20.22	17.33	20.11	19.56
20/01/2011 11:08:00	19.83	18.17	20.00	17.33	20.00	19.67
20/01/2011 11:07:00	19.67	17.83	20.17	17.22	20.06	19.61

The 3D Digital Design & Development Ltd is the company name and therefore can be changed see File Menu instructions. There may be a number of pages in the report depending the report period and the log rate. The bar at the bottom shows the page you are viewing, the total number of pages and the current zoom settings.

Summary with MKT Report (Mean Kinetic Temperature)

When the summary with MKT report is selected you will also be asked if you would like to view the data grouped by date or by channel. The Summary grouped by channel will display the overall maximum, minimum and average for the whole range of dates selected.

Below is a summary with MKT grouped by date, you will see the channels listed under each date. This report shows Channel name, Maximum, Minimum and Average Readings.

20/01/2011 3D Digital Design & Development Ltd
MKT Summary Report

Channel Name	Maximum	Minimum	Average	MKT
20 January 2011				
Main Free	19.89	16.78	17.74	17.77
Aseptic Fridge	18.39	16.22	16.88	16.88
Aseptic A	20.28	16.11	17.57	17.64
Dispensar	17.44	16.50	16.81	16.81
QA Fridge	20.11	17.44	18.33	18.34
QA Freeze	19.67	16.26	17.25	17.29
QA Incuba	18.67	16.11	16.88	16.90
Aseptic F	20.06	16.50	17.64	17.68
Aseptic S	19.94	16.44	17.41	17.45
Aseptic A	20.28	16.11	17.85	17.72
TMP Fridg	19.72	16.44	17.31	17.34
Delivery	19.89	16.50	17.43	17.47
Goods In	20.11	16.67	17.73	17.77
IV Stores	20.17	17.39	18.15	18.17
MDU Fridge	20.00	16.72	17.74	17.78
PPDU	19.72	16.50	17.48	17.52
Air Core 1	20.24	16.48	17.59	17.65
Air Core 2	19.37	16.22	17.16	17.20

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

Below is a summary with MKT grouped by channel, as you can see each channel is listed with selected dates displayed under each.

20/01/2011 3D Digital Design & Development Ltd
MKT Summary Report

Channel Name	Maximum	Minimum	Average	MKT
Main Free				
20-January-2011	19.89	16.78	17.74	17.77
19-January-2011	21.89	16.56	18.95	19.12
Total	21.89	16.56	18.35	18.71
Aseptic Fridge				
20-January-2011	18.39	16.22	16.88	16.88
19-January-2011	19.33	15.94	17.46	17.52
Total	19.33	15.94	17.17	17.32
Aseptic A				
20-January-2011	20.28	16.11	17.58	17.65
19-January-2011	21.78	15.78	18.72	18.92
Total	21.78	15.78	18.15	18.53
Dispensar				
20-January-2011	17.44	16.50	16.81	16.81
19-January-2011	18.22	16.22	17.08	17.10
Total	18.22	16.22	16.95	17.01
QA Fridge				

Current Page No.: 1 Total Page No.: 2 Zoom Factor: 100%

Event Report

Selecting Events from the report screen will enable you to view any channel events that have happened for the period chosen:

The screenshot shows a software window titled '3D Event Report'. The window contains a table with the following data:

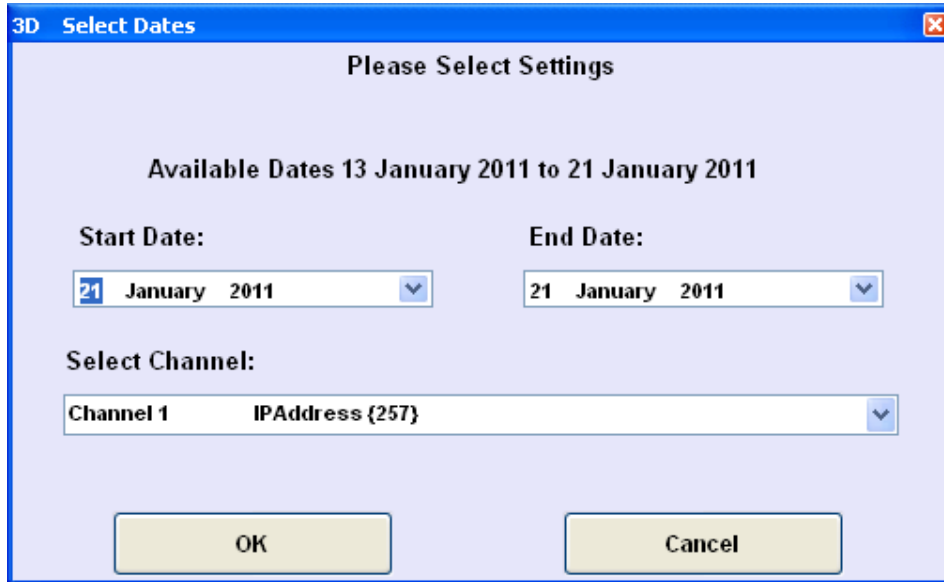
Date/Time	Reading	Event	Door Event
20/01/2011			
<u>3D Digital Design & Development Ltd</u>			
<u>Event Report</u>			
Air Core 1			
01/01/2011 00:03:00	17.02	High Alarm	
01/01/2011 00:00:00	17.03	Reading OK / DELAY	
Air Core 2			
10/01/2011 13:57:00	20.02	Low Alarm	
10/01/2011 13:36:00	19.90	Alarm Ack	
10/01/2011 13:35:00	19.90	Alarm Ack SW	
10/01/2011 13:35:00	19.90	Alarm Ack SW	
01/01/2011 00:07:00	16.77	Low Alarm	
01/01/2011 00:00:00	16.78	Reading OK / DELAY	
Aseptic A			
06/01/2011 08:33:00	15.11	Reading OK / DELAY	
06/01/2011 08:32:00	15.22	Reading OK / DELAY	
06/01/2011 07:26:00	14.94	Low Alarm	
06/01/2011 07:21:00	15.00	Reading OK / DELAY	


At the bottom of the window, there is a status bar with the following information: Current Page No.: 1, Total Page No.: 5, Zoom Factor: 100%.

This report shows the time & date, the channel reading and the event condition. If there is (Download) at the beginning of the event condition, it means the event has been added due to a unit download.

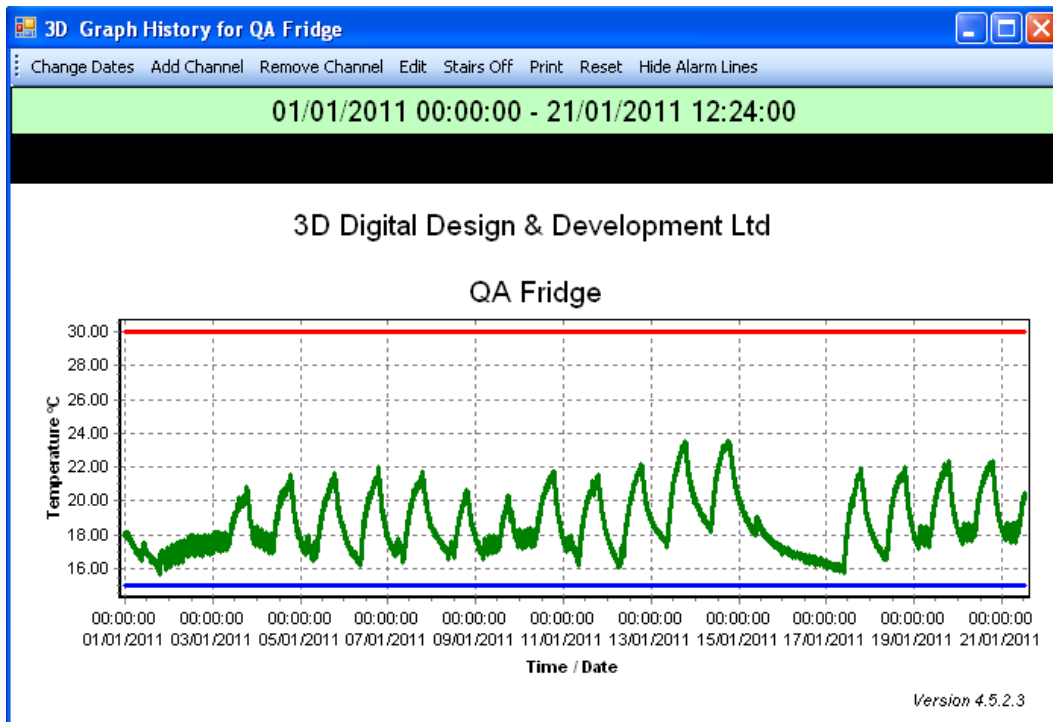
Graph History Tab

The graph history tab allows the user to view channel data graphically, when you click on the Graph History tab you will see the following.



Select the Start and End date. You can type the date, use the up and down arrows to change the date or click on the  and select the date from the calendar displayed.

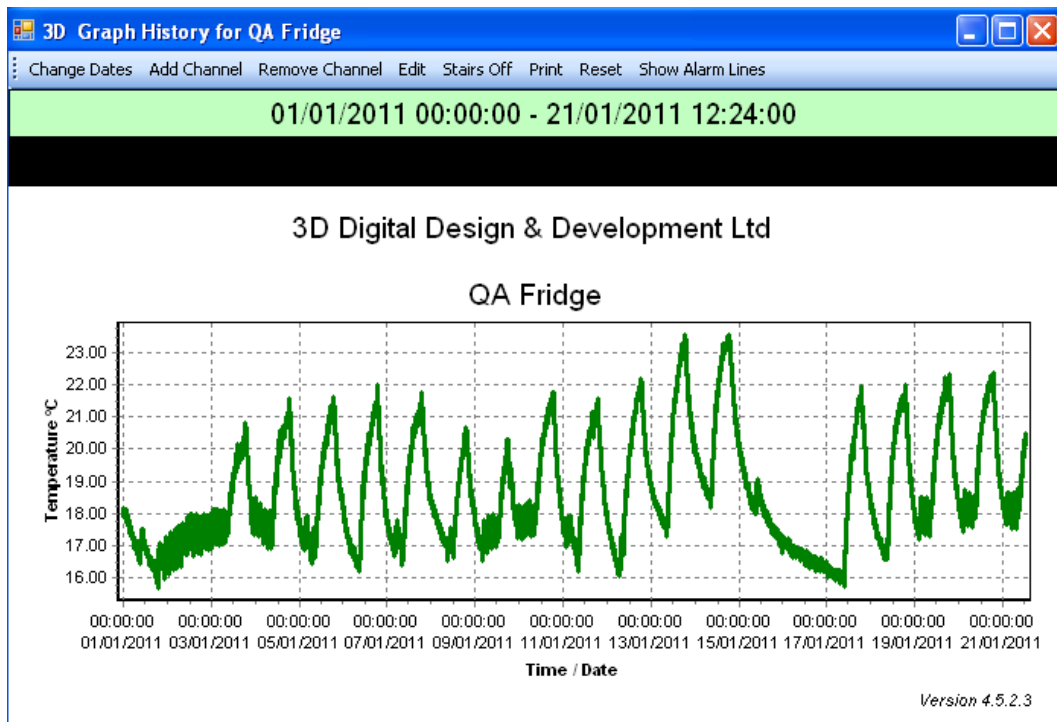
Next select the channel you would like to display, more channels can be added from the graph screen. Click on OK to display the graph



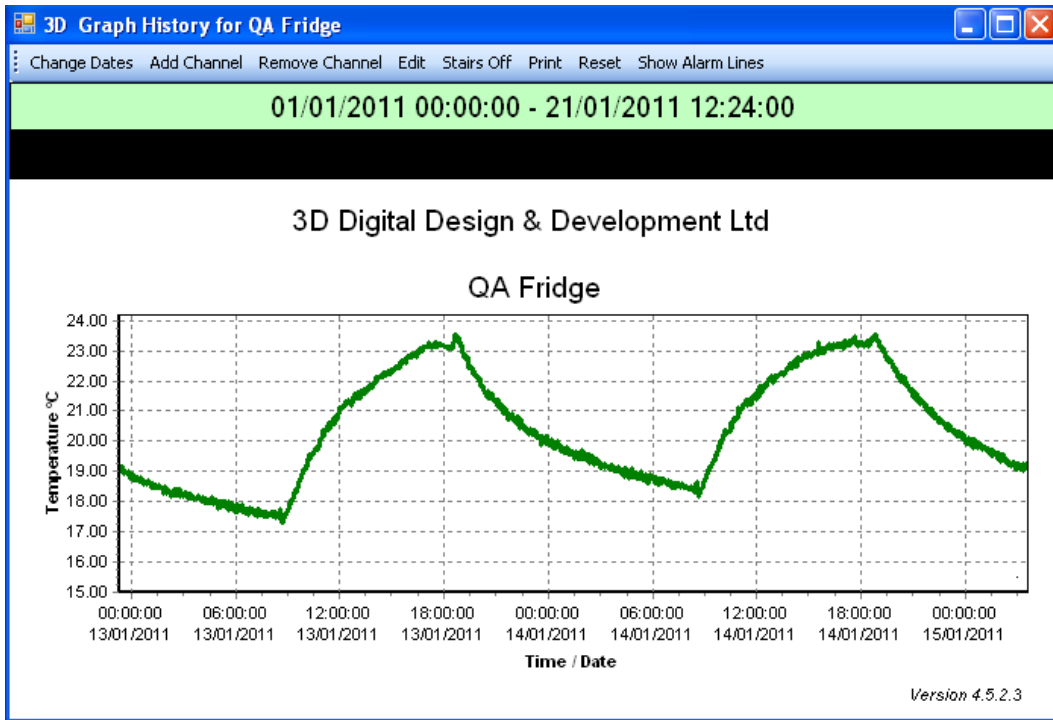
The Graph History menu options are:-

Change Dates	Gives you the option to change the start or end date for your data.
Add Channel	Allows user to add another channel to be displayed on the graph.
Remove Channel	Allows user to remove a channel from the graph.
Edit	From the Edit option you can change the background colour, axis colour, channel colour and channel line thickness as required, this information is stored and all facility graphs will use the settings chosen.
Stairs Off/On	Stairs off will draw one point directly to the next.
Print	Give the option to print each graph in turn each on a separate page
Reset	This will reset the graph after any zooming, to zoom on the graph hold the left mouse button on a section of the graph and move down and to the right (you will see a box displayed marking the area to be zoomed) release the mouse button to see zoomed area.
Hide Alarm Lines	The alarm lines are the current low and high alarm values shown on graph as Red and Blue lines, you can choose whether these are displayed or hidden. Once a 2 nd channel has been added to the graph this menu option is removed.

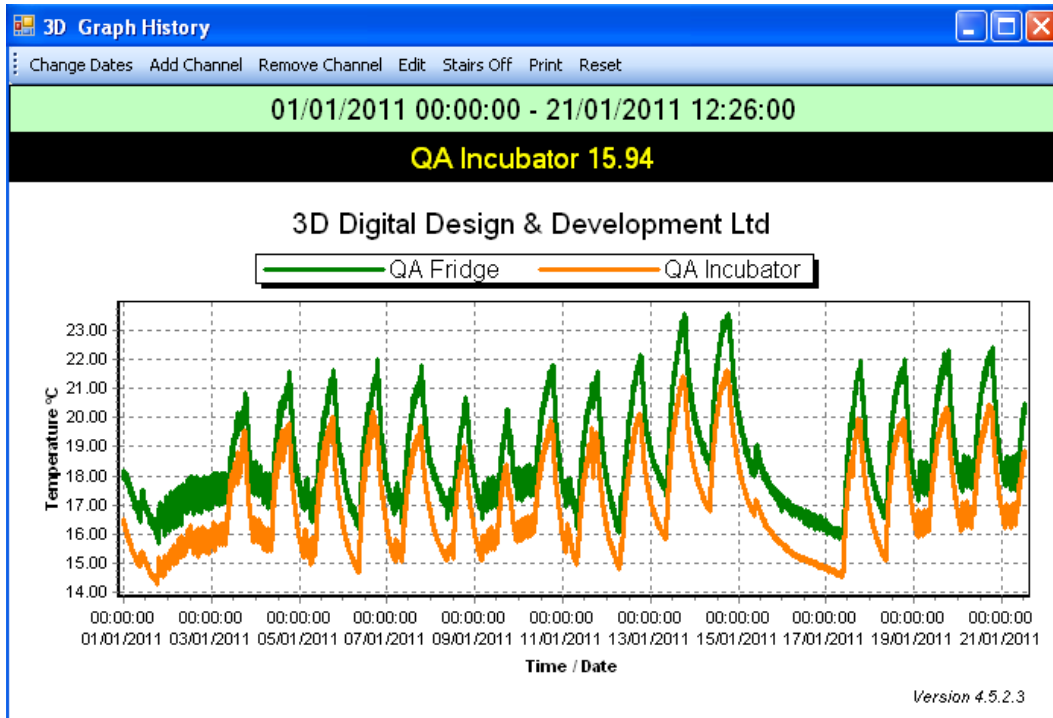
This is an example graph with the alarm lines hidden



To zoom on the graph hold the left mouse button on a section of the graph and move down and to the right (you will see a box displayed marking the area to be zoomed) release the mouse button to see zoomed graph see example below.



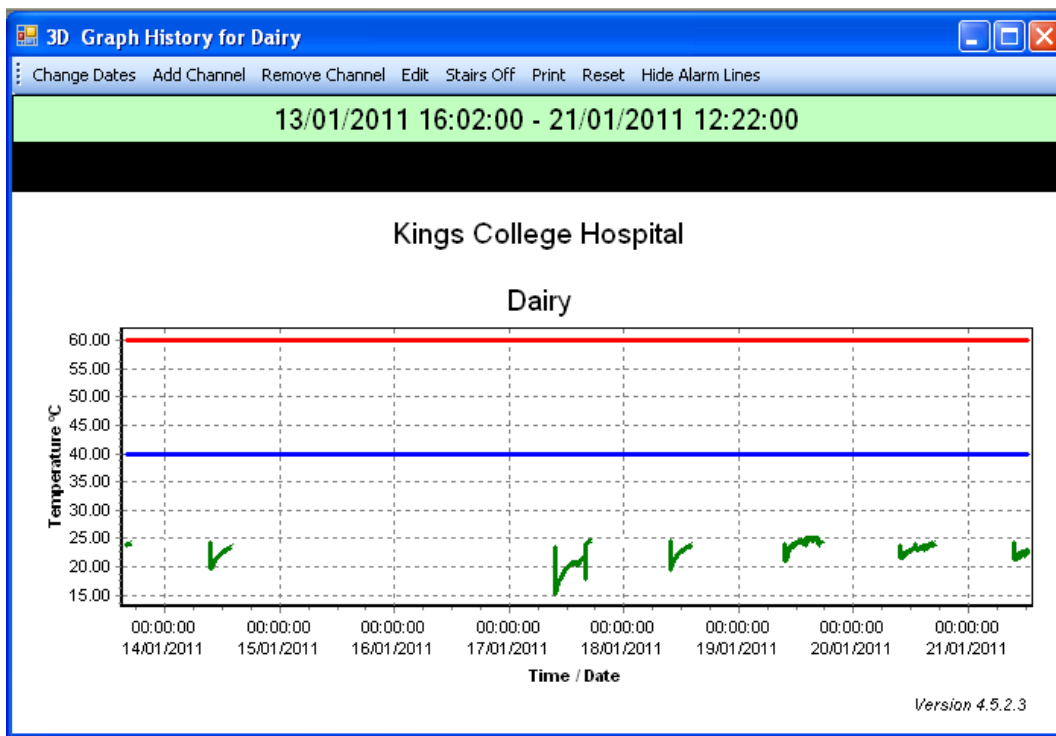
The picture below shows the graph with two channels added.



If the channel you selected is not connected for a period of time you may see gaps in the channel line, as shown below, this means there are no numeric readings for the channel.

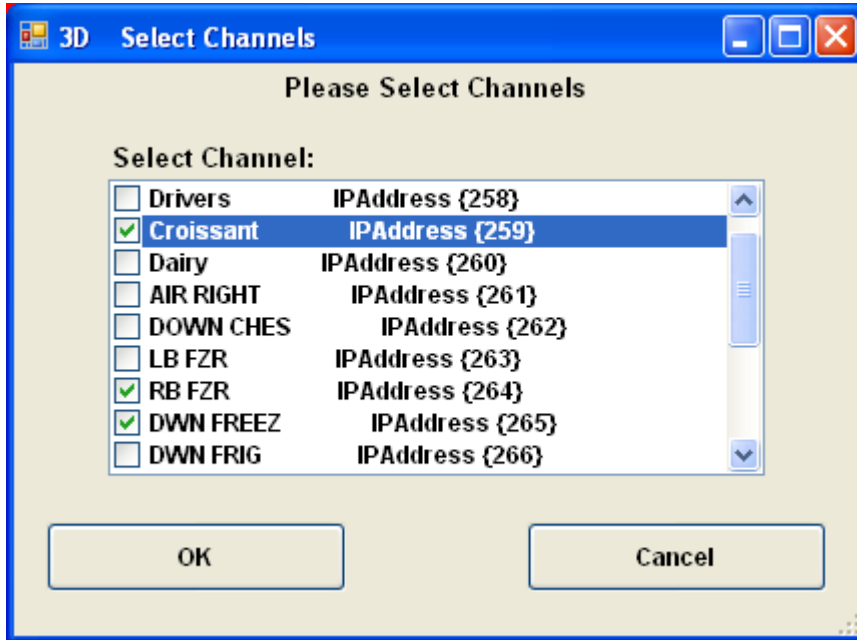
The channel may have been:-

- removed from the system
- in Fault condition
- in RXERR condition
- channel set to disabled

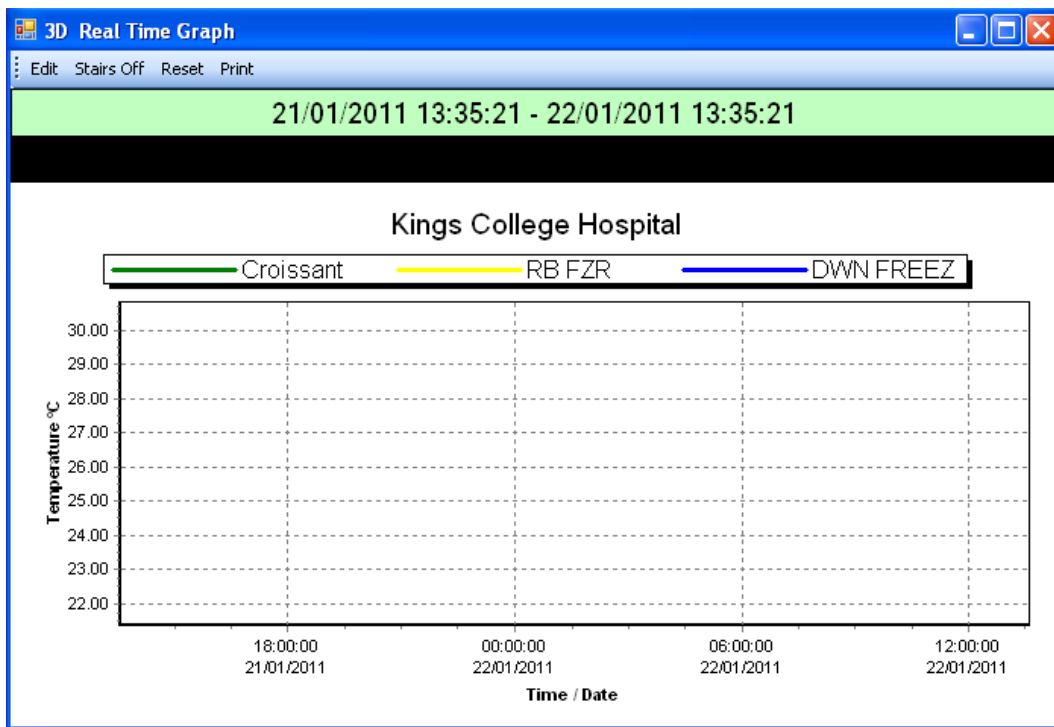


RT Graph Tab

The RT graph tab allows the user to view data for the selected channels in graphical format, in real time, when you click on the RT Graph tab you will see the following.



Select the channel you would like to display and click OK. You will see a screen similar to the one below that will update each minute (it will take approximately 3 minutes to see the readings).



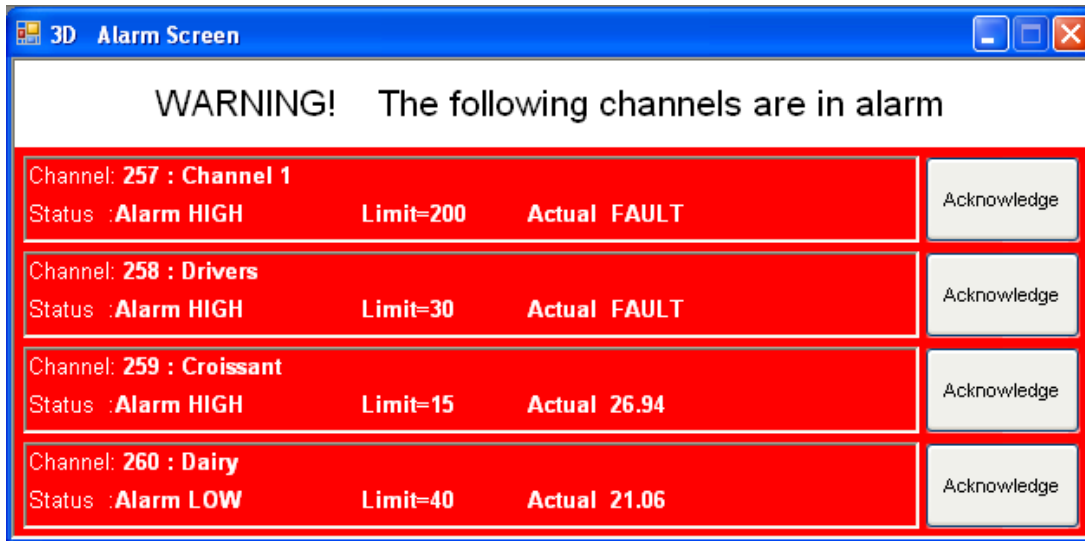
The RT Graph menu options are:-

Edit	From the Edit option you can change the background colour, axis colour, channel colour and channel line thickness as required, this information is stored and all facility graphs will use the settings chosen.
Stairs Off/On	Stairs off will draw one point directly to the next.
Print	Give the option to print each graph in turn each on a separate page
Reset	This will reset the graph after any zooming, to zoom on the graph hold the left mouse button on a section of the graph and move down and to the right (you will see a box displayed marking the area to be zoomed) release the mouse button to see zoomed area.

The graph displays 24 hours data. If the graph screen is closed, when re-opened the graph will start again with a clear screen.

Alarm Tab

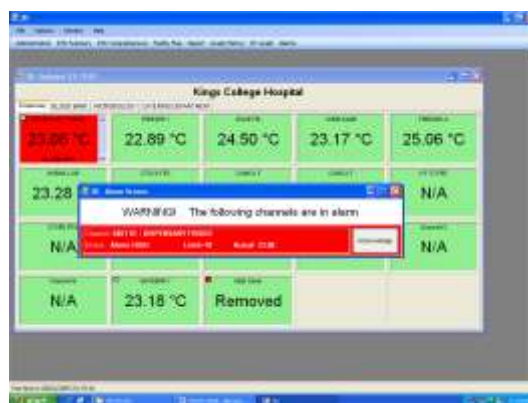
The Alarm Tab forces the alarm popup screen shown below to be displayed (top left of the screen).



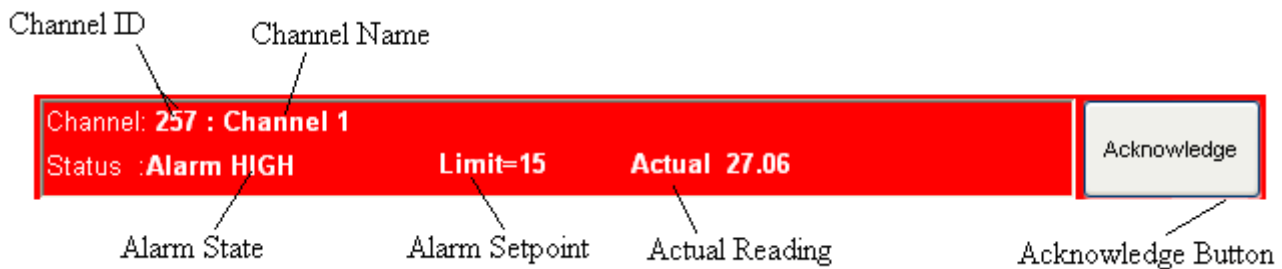
Should one of the logged in users channels go into alarm the real time screen will change from green to amber to indicate that the channels parameters are outside for a period less than the alarm delay.



The channel display will stay amber during the alarm delay period, when the alarm delay expires, the channel background will change to red and the alarm PopUp screen will be as shown



The alarm popup screen only shows the channel alarms for the currently logged in user. The following information is displayed.



- Channel ID this is the unique channel reference number.
- Channel Name name given to the channel.
- Alarm State this is the alarm condition, High, Low, Ext High etc.
- Alarm Setpoint the value given to trigger the alarm.
- Actual this is the current channel reading.
- Acknowledge button when clicked will acknowledge the alarm on the unit.

To acknowledge the alarm click on the Acknowledge button, you will be asked to enter a cause of the alarm.
test



The red channel alarm on the popup screen will be replaced with yellow and the Acknowledge button will no longer be displayed. This will take about 1 minute, as the software waits for confirmation of the acknowledgement from the unit.

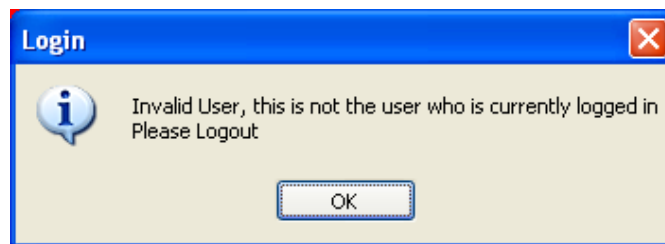


File Menu

Logout

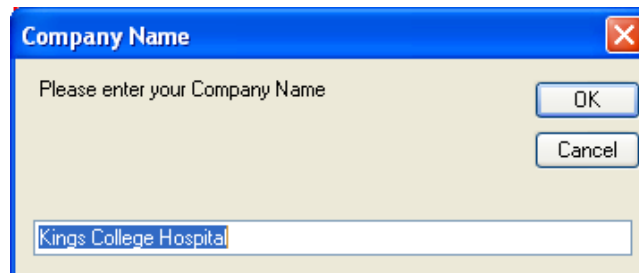
Logs the current user out of the system leaving it waiting for a new user to login. The software is still communicating with the units and taking readings. This leaves the software in a safe state as nobody can see or change anything without a new user logging back in. This information is saved in the audit trail.

If a user is logged into the software and a different user tries to use their own password to access the software, they will see the message below. To keep the audit trail in sync with the software the new user would have to logout the previous user and then login themselves.



Company Name

Allows the company name which is displayed on several screens in the software to be changed to one of their choice.



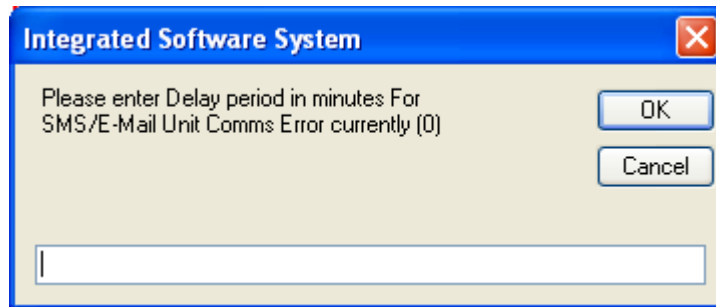
Password Expiry Length

This is the length of time a password is valid for. Once this period has elapsed the user will be warned each time the password is used that the password needs to be updated. See message below. This option is set to 6 months be default.



SMS/Email Unit Alarms

This allows the user to set a delay period for unit alarms. If there is a network error and a unit goes into C-ERR (Communication Error) the software will wait for 4 minutes before trying to communicate with the unit again. This allows the network time to recover. If you have SMS or Email setup and do not want to be sent a message for short term unit errors you can enter a delay period here, the software will then only send a message if the unit remains in error for longer than the period specified. Default is 0 (No delay).



E-Mail Settings

When setup this enables the software to send an email to required users to inform them of alarms, unit errors and alarm acknowledgments, see Appendix E (Email Instructions) in the 3DISS-2011_MANUAL.doc for setup instructions.

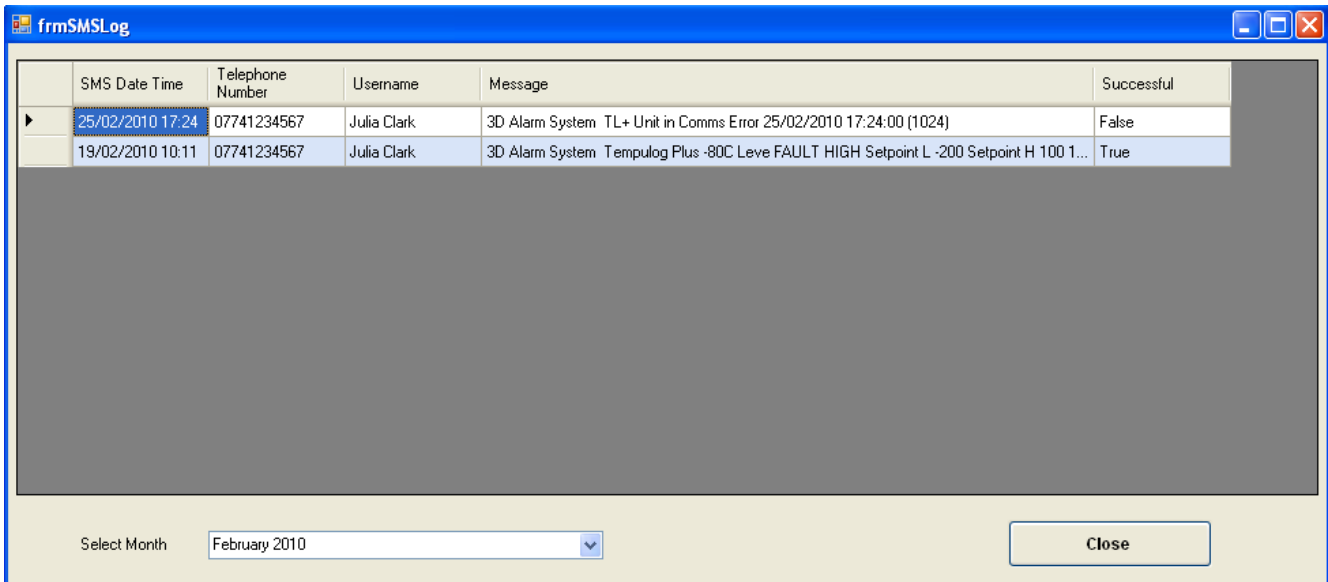
SMS Menu

Setup SMS

Select Setup SMS from SMS menu to enable the software to send SMS's to required users to inform them of alarms, unit errors and alarm acknowledgments, see Appendix A (SMS Instructions) in the 3DISS-2011_MANUAL.doc for setup instructions.

View SMS Log

Select View SMS Log from SMS menu to view a copy of the SMS's that have been sent as shown below. The report shows the date and time of the message, the telephone number it was sent to, the username (if this is blank it means there is no user associated with the telephone number in the users setup), a copy of the message and also if the message was sent successfully. If the Successful shows False, it means the modem did not return a successful response after sending the message. This report is shown on a monthly basis; you can change the month to view from the Select Month option.



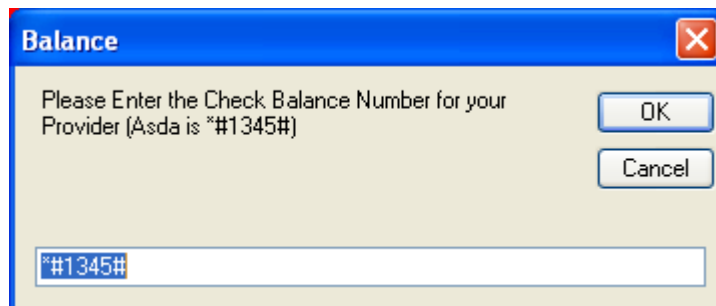
SMS Date Time	Telephone Number	Username	Message	Successful
25/02/2010 17:24	07741234567	Julia Clark	3D Alarm System TL+ Unit in Comms Error 25/02/2010 17:24:00 (1024)	False
19/02/2010 10:11	07741234567	Julia Clark	3D Alarm System Tempulog Plus -80C Leve FAULT HIGH Setpoint L -200 Setpoint H 100 1...	True

Select Month: February 2010

Close

Check Balance

If you are using an ASDA Sim card, select Check Balance from the SMS menu and click OK from the screen below, you will see a message telling you the remaining credit on the card. If you know the command for a different service provider (not ASDA) and they respond to the command with an SMS message you can enter it below. We only guarantee this works with the ASDA Sim card.



Balance

Please Enter the Check Balance Number for your Provider (Asda is *#1345#)

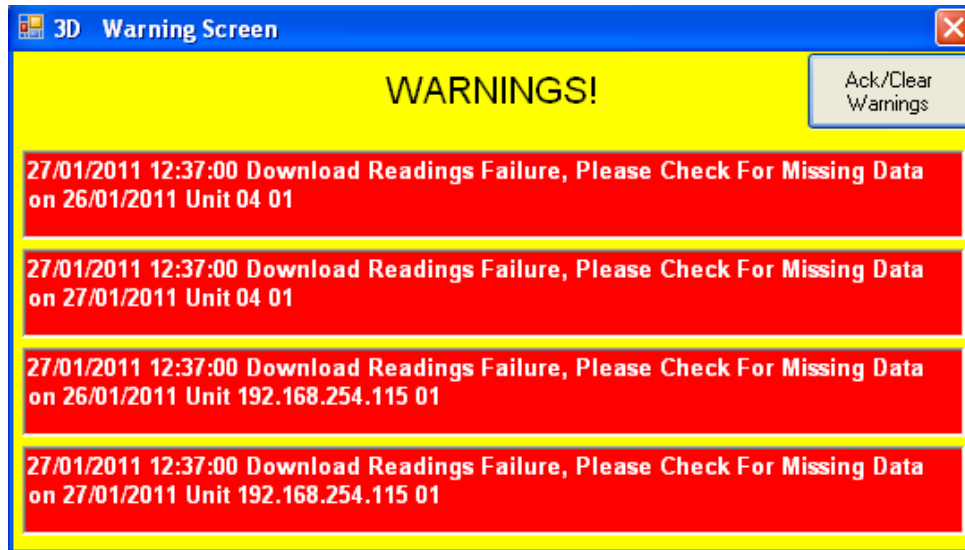
OK

Cancel

*#1345#

View Warning Log

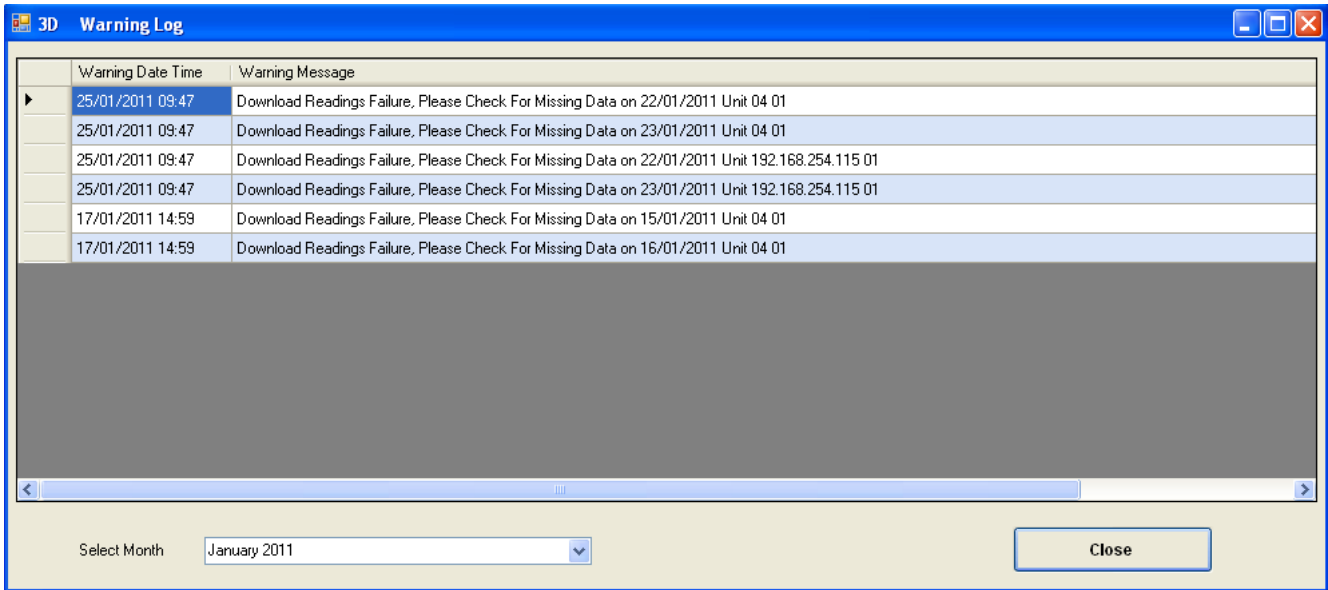
The Warning Screen is displayed on the top right of the screen if there is something the user should be aware of. The Warning screen can be acknowledged to clear it from the users screen; the details are stored in the database and can be viewed from here. See below for an example of the warning screen.



Reasons for Warning:-

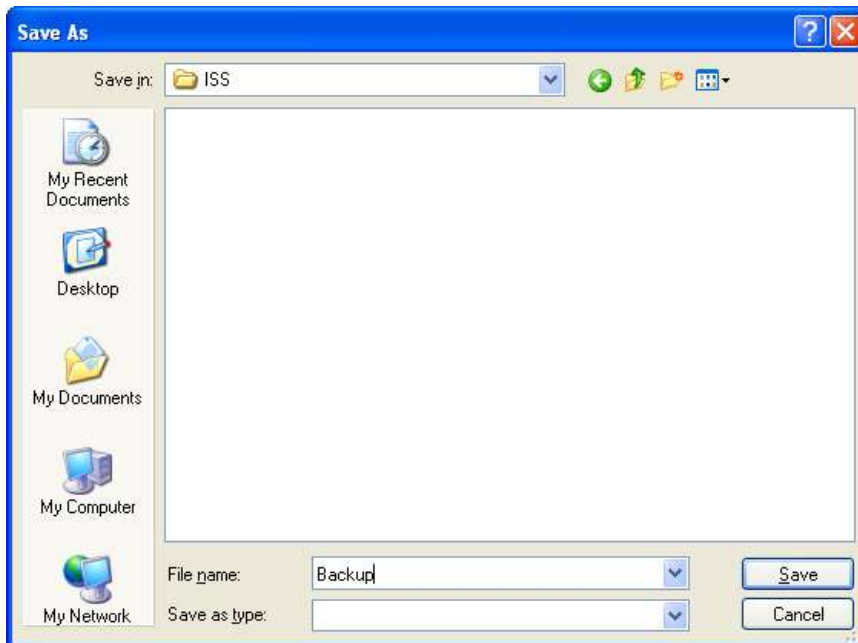
Unable to Backup Full Database	Every month the software will make a full backup of the database, this message means it failed, follow instructions to setup Database Backup.
No Backup File Name	There is no filename entered for the database backup, follow instructions to setup Database Backup.
No SQLCMD Path	This is the funtion used for the database backup, please follow instructions to setup Database Backup.
Unable to Backup Database	Every day the software will make a backup of the changes to the database since the full backup on 1 st of the month, this message means it failed, follow instructions to setup Database Backup.
Download Readings Failure	This means a download was required but failed, use the manual download option to reattempt to download the missing data if required.
Download Events Failure	This means a download was required but failed, use the manual download option to reattempt to download the missing data if required.
Upload Readings Failure	This means a download was required but software failed to add readings to the database. Use the manual download option to reattempt to download the missing data if required.
Upload Events Failure	This means a download was required but software failed to add events to the database. Use the manual download option to reattempt to download the missing data if required.
SMS Message failed to send to	SMS message was not sent to user.

This is a copy of the Warning log screen, this report is shown on a monthly basis; you can change the month to view from the Select Month option.



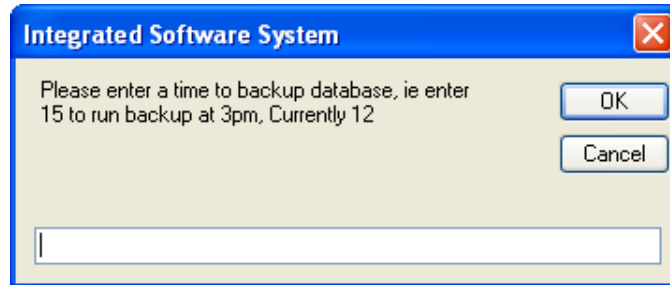
Backup Database

This allows you to create a backup of the database in addition to the daily backup. This will backup the current database. When asked enter a filename in the Save As box, a file with the extension .bak will be created in the location chosen.

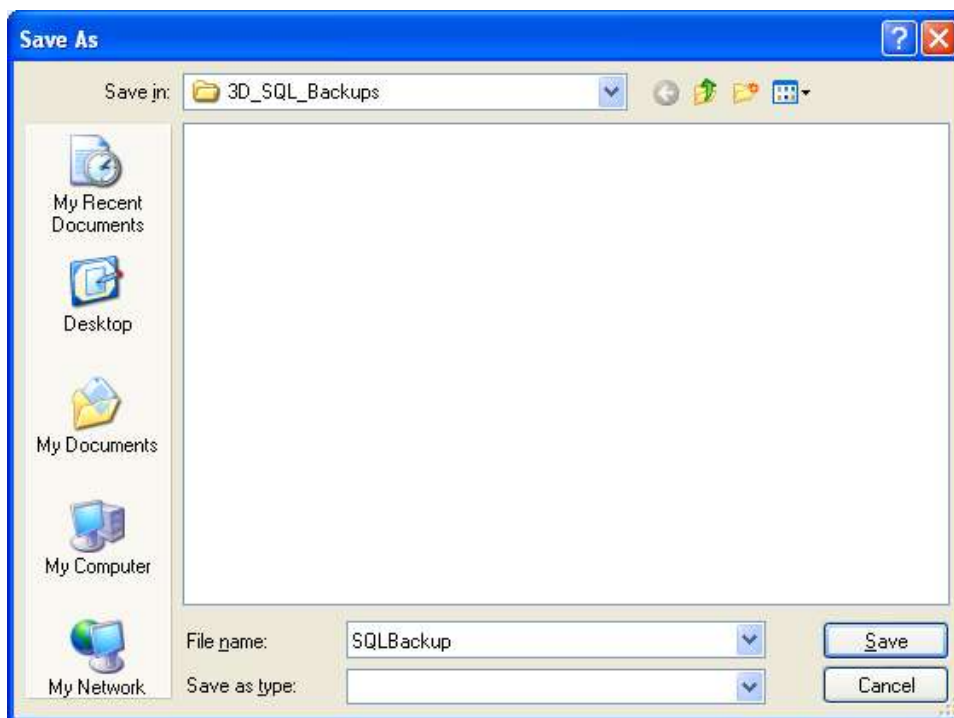


Change Database Backup Daily Backup Settings

This allows the user to modify the daily backup settings, when asked enter a time (24 hour number only) in the box and click OK, if you would like backup to take place and 5pm, just enter 17.



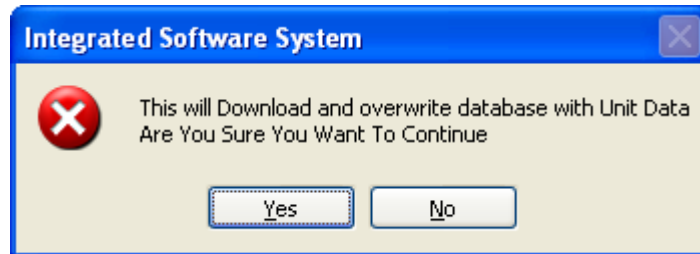
You will be asked if you want to change other settings, if you click Yes Click OK then select a folder and filename without extension in the box shown below as SQLBackup.




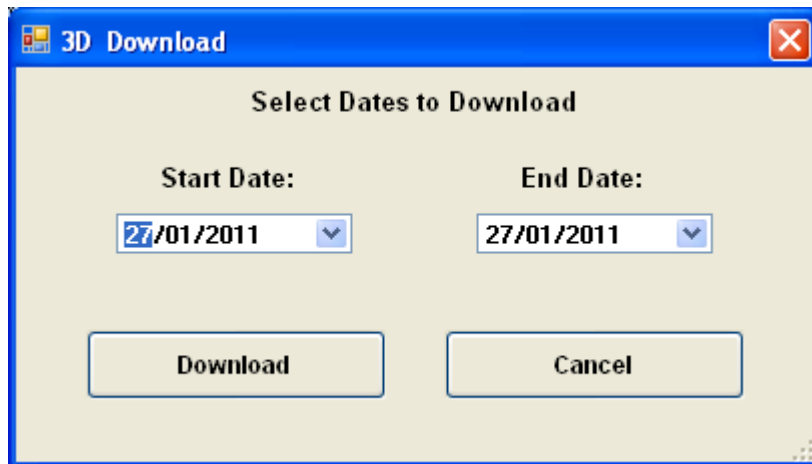
Click Save and you will see a message to say Database is now set to backup daily, click OK to finish.

Download From Unit

The unit stores at least 3 days readings on board, if you have missing data you can try to download from the unit, select Download From Unit. You will see the following message, this is a warning that any data currently in the database for the days you download will be deleted and overwritten with the downloaded data from the unit. You will then be warning that software will not be logging data while downloading.



Select a start and end date to download. You can type the date, use the up and down arrows to change the date or click on the  and select the date from the calendar displayed. Then click Download or Cancel to abort.



Show Server & Database

When installing the client or web software you will need to know the server and database name, this menu option displays the information you need on the screen



Change Server/Database Address

This option will display the current server address and ask if you would like to change it. If you click Yes the software will close and when restarted it will ask for the information entered on the 1st run, see Running Server for First Time in the 3DISS-2011_MANUAL.doc for more information.

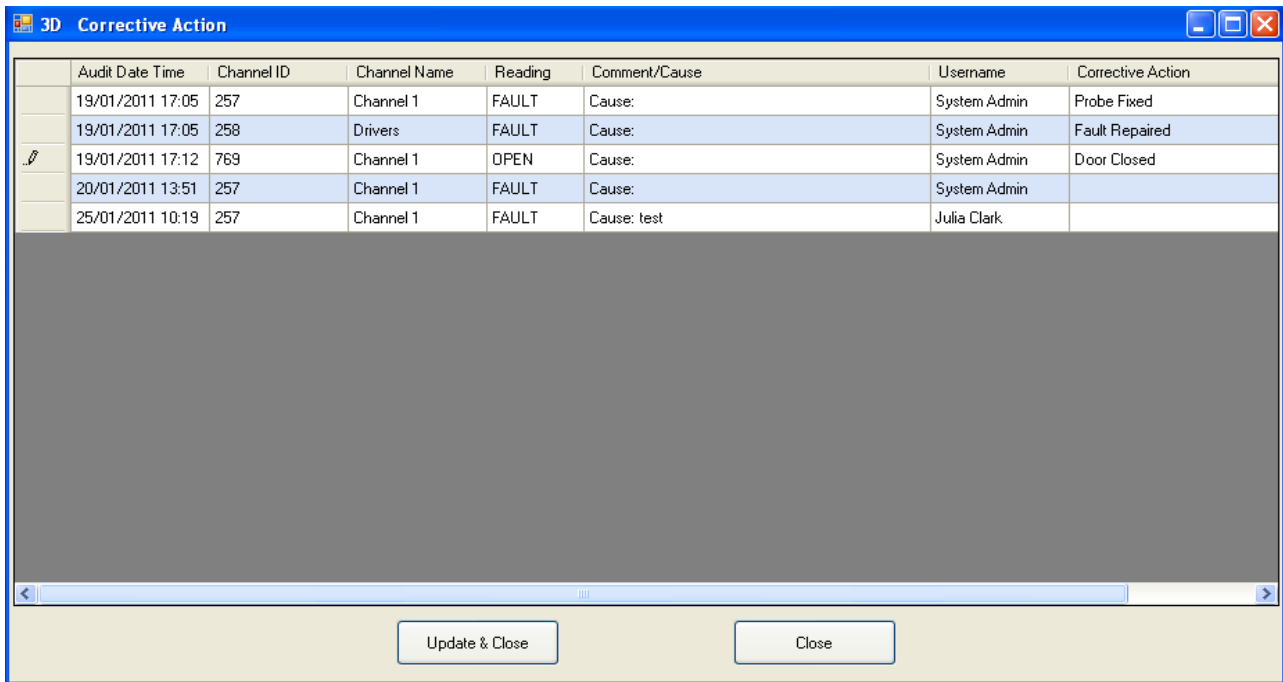
Exit

Stops the software. When the software is not running any clients or web viewers will see old readings and the database will NOT update any alarm information or readings. The server software is designed to be left running continuously.

Options Menu

Add Corrective Action

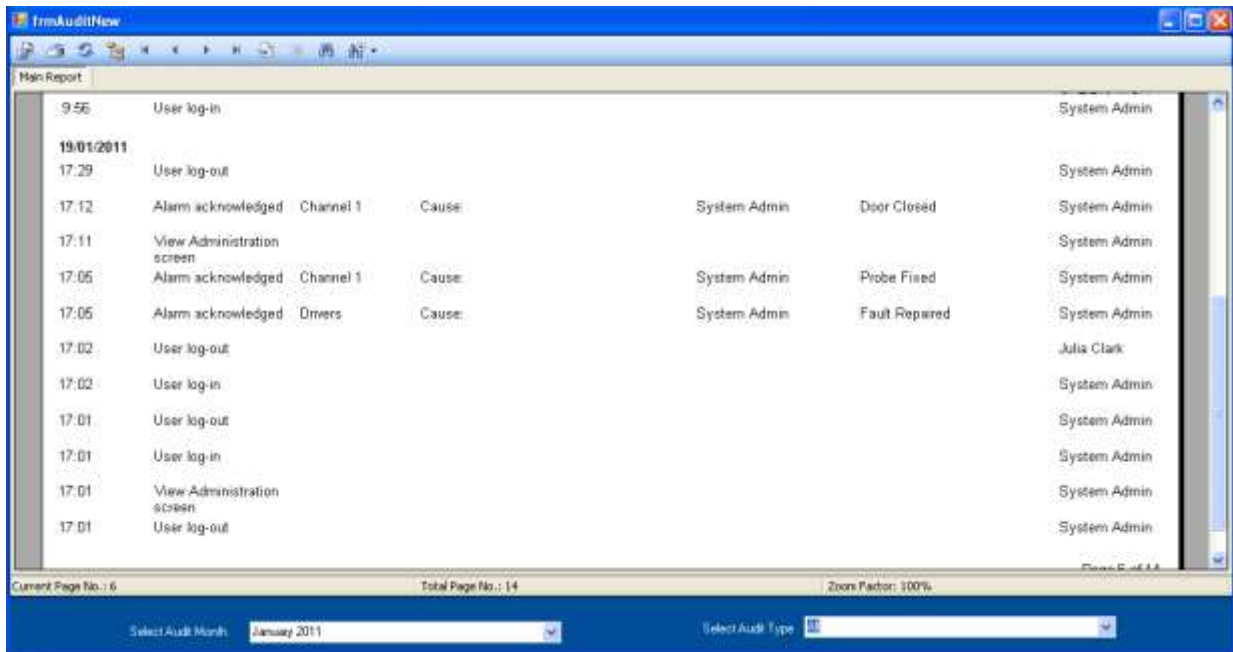
The software allows the user to enter comment for the corrective action after the initial alarm cause.



Audit Date Time	Channel ID	Channel Name	Reading	Comment/Cause	Username	Corrective Action
19/01/2011 17:05	257	Channel 1	FAULT	Cause:	System Admin	Probe Fixed
19/01/2011 17:05	258	Drivers	FAULT	Cause:	System Admin	Fault Repaired
19/01/2011 17:12	769	Channel 1	OPEN	Cause:	System Admin	Door Closed
20/01/2011 13:51	257	Channel 1	FAULT	Cause:	System Admin	
25/01/2011 10:19	257	Channel 1	FAULT	Cause: test	Julia Clark	

This screen shows the channels which were/are in alarm with oldest at the top of the list. In addition the alarm “cause” is also displayed.

Click on the corrective action and type the action carried out, when finished click on Update & Close. The corrective action for the channel will be displayed on the audit trail for that day. See below.



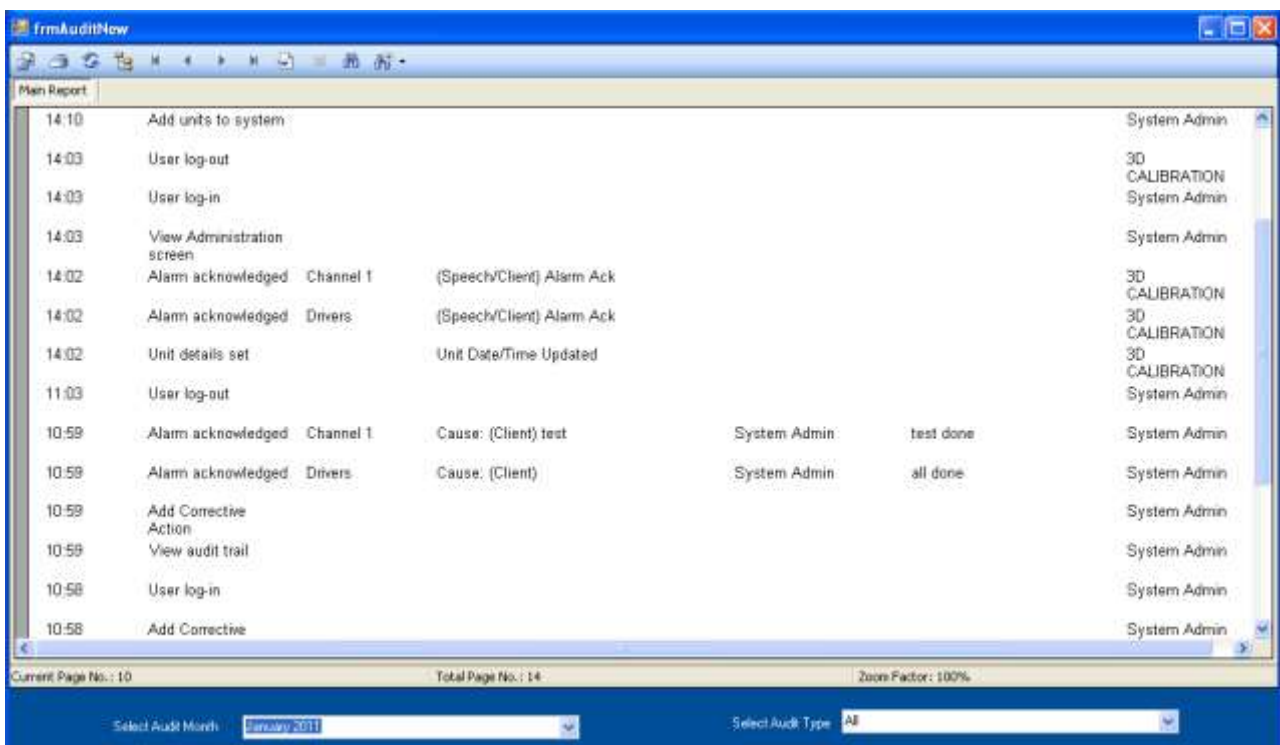
Audit Trail

The audit trail report includes

Time and Date

Description of the action such as login, logout, change channel name, channel alarm limits, alarm acknowledge, alarm cause and corrective action, user name etc.

Channel Name, Comment/Cause, Corrective Action User and Action and Username.



The audit trail report has the same functions as the reports mentioned previously in this manual.

This report is shown on a monthly basis; you can change the month to view from the Select Month option, you can also select the type of audit events you would like to view. Selecting Alarm Acknowledged for example will display alarm acknowledged audits only.

Turn Sounder On/Off

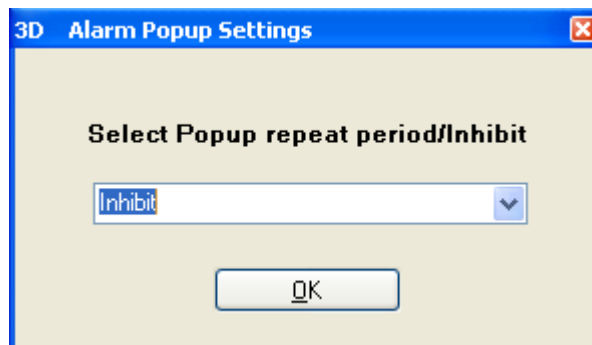
The alarm popup has an audible beep, that when set causes the PC to beep every minute to alert a user to an alarm condition. This can be turned on or off from this menu option.

Turn Popup On/Off

The alarm popup can be turned off from here, this is not recommended as the users will no longer be warned of channels in alarm condition.

Popup Settings

The alarm popup box will automatically reappear every minute by default even if you click the close button. This can be changed here by choosing a different interval or inhibit the alarm altogether (not recommended). Click on OK to confirm setting.



Export To Excel

The 3DISS allows the user to convert a period of data to an Excel file. Select dates required from the following screen click OK, now you need to specify the path, drive and file name a .csv file will be created.

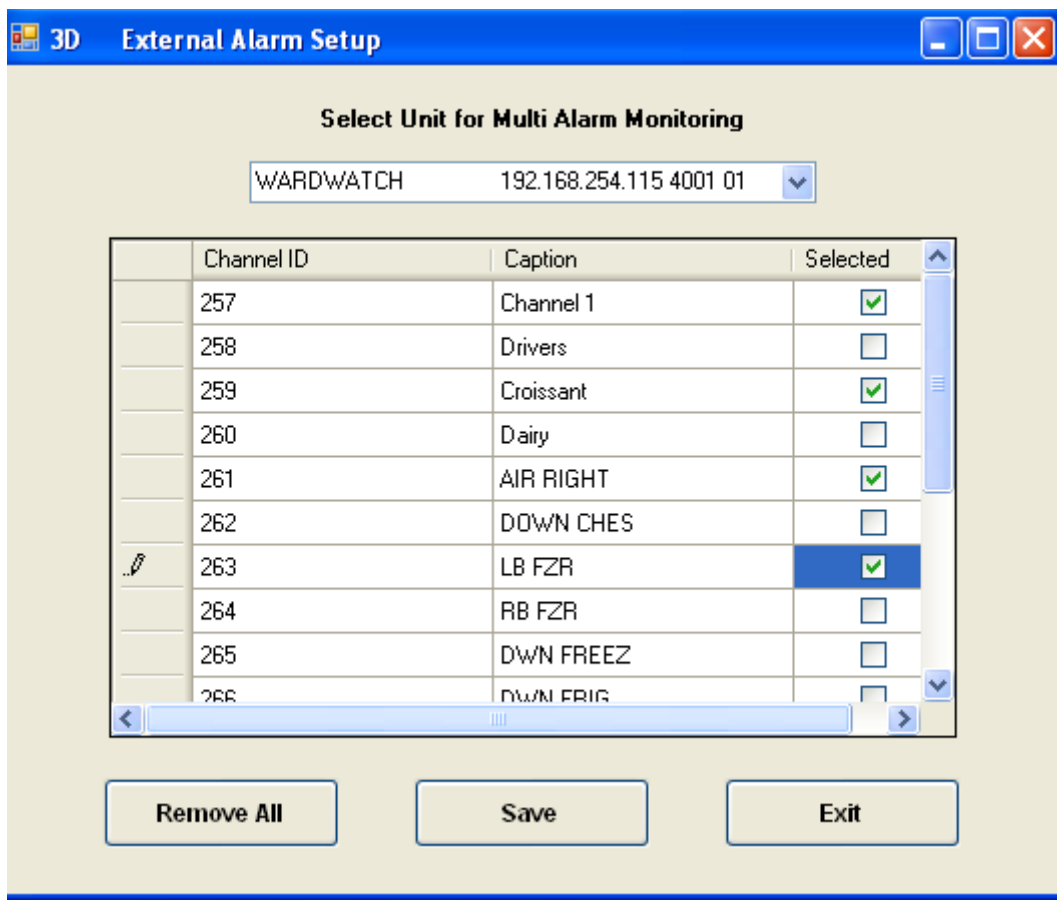


Excel Backup Daily Stopped/Running

This allows the software to make a daily Excel Spreadsheet of the previous days data. This is highly recommended in order to increase your data security and allow users to carry their own data analysis and presentation. By default the software creates an excel file each day.

Setup Multi Alarm Unit(s)

The 3DISS software allows a Wardwatch to work as Network Based Alarm Siren the following screen allows the user to select any active Wardwatch to operate as remote Network Based Alarm



This also allows the selection of the channels which will activate the Network Alarm, these channels may be from RTS, Tempulog4 or Wardwatch's, Click on save to save these settings. To clear all active Network Based Alarm units and channels click on Remove All.

Offset settings

In order to introduce a small off-set to the temperature probes actual reading to compensate for slight error, the following option is available.

The screenshot shows a software window titled "3D Offset (Updated 27/01/2011 14:07:48)". It contains eight probe settings arranged in a 2x4 grid. Each setting has an "Offset" field and a "Reading" field. At the bottom, there are four buttons: "Previous", "OK", "Save", and "Next".

Probe Name	Offset	Reading
Channel 1	2	FAULT
Drivers	2	FAULT
Croissant	1.3	23.06
Dairy	2	23.11
AIR RIGHT	2	FAULT
DOWN CHES	2	FAULT
LB FZR	0.6	FAULT
RB FZR	2	21.44

The Maximum off Set is +2C, click Save when finished to send the offsets to the unit.

Window Menu

Tile Horizontally	Allows the screen to be displayed using standard office settings
Tile Vertically	Allows the screen to be displayed using standard office settings
Cascade	Allows the screen to be displayed using standard office settings
Arrange icons	Allows the screen to be displayed using standard office settings

Help Menu

About

Shows the software version and contact details.

Help

Help manual is on the CD.