

**3DISS**  
**Integrated Software System**  
**For RTS/Ward Watch/TempulogPlus/Tempulog4**

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## 3DISS

### Integrated Software System

#### Introduction

The new 3DISS software has been designed as the next stage in the development of 3D software which takes advantage of the Microsoft SQL Database to provide secure data acquisition with the security and data integrity offered by the SQL.

3DISS combines hardware control and configuration with system administration, using intuitive, simple to follow drop down menus.

The 3DISS is multi-channel based system which permits the connection of a number of different 3D data loggers to be control by single software. The current version cover the following products:

RTS

TempulogPlus

Ward Watch

During the course of 2008, the software will incorporate the following products:

Tempulog4

Ward Watch II

TransWatch

ECOTEC

In addition to being a multi-channel multi-device system the 3DISS is also multi-user software with user selectable roles and privileges with full audit trail, thus meeting national and international regulatory requirements such as MHRA, CPA, FDA 21 CFR Part 11, etc. This allow a number of departments within hospital to run the same software, however each department operates independently, thus Haematology, Pharmacy, Microbiology, Histology and Bio-chemistry may operate the same software utilising a number of 3D data loggers

This manual is divided into two sections:

- a Hardware configuration
- b System and users administration

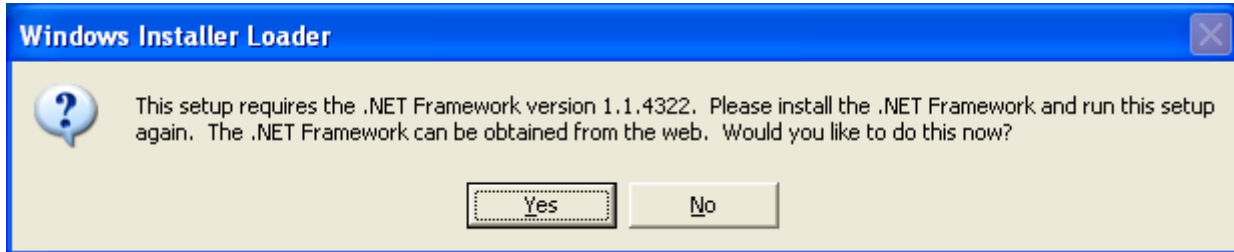
#### Installation

The software is supplied on CD with instruction on step by step installation

### Integrated Software Installation

1. WINDOWS XP SERVICE PACK 2 MUST BE INSTALLED BEFORE INSTALLATION.
2. Open '*Windows Installer V3.1*' folder on CD and double click on the '*windowsinstaller.exe*' to install windows installer V3.1
3. Follow the instructions on screen, once complete click on '*Finish*' and the PC will reboot.
4. Open '*Net framework V2*' folder on CD and double click on the '*dotnetfx.exe*' to install the .net Framework V2
5. Follow the instructions on screen, Click on '*Finish*' when the 'Setup Complete' screen is shown.

6. Open '*Integrated System V\**' folder on CD  
Double-click on '*Setup.exe*' in folder.
7. If the following message appears on the screen, Click *No* and double-click '*dotnetfx..exe*' in folder '*.net Framework V1*' on CD



8. Follow the instructions on screen. Once installed the message 'Installation of Microsoft.NET Framework 1.1 is complete.' will appear on the screen, click *OK*.
9. If '*dotnetfx.exe*' was required to run repeat steps 6 and 7.
10. Click *Next* on Welcome screen.
11. Change Installation folder and user option if required on Select Installation Folder Screen below, click *Next*.
12. Click *Next* on Confirm Installation screen.
13. Software will install, click *Close* on Installation
14. Open '*ISS SQL File*' folder on CD and double click on '*setup.bat*' to install SQL software. This is shown as an MS-DOS Batch File.



15. When install complete (the black command window will close), **REBOOT PC**.
16. Run Integrated Software.

## **Administration**

The first step in operating the software is to set up various roles which may assigned a number of users. The default setting requires the system administrator to login as:

User Name: admin

Password: threed

The responsibility of the administrator is to setup user and the their associate roles, each user need a unique user name and a password i.e.

John Smith

12345678

The password is usually 8 characters, which could be a combination of numbers and characters.to The roles may be defined by the administrator; each role has a number of privileges which may include:

System Administration

Run Software

Close Software

Acknowledge Alarm

Email setting

View Audit Trail

View Administration

Control Alarm Popup Screen

Change Channel settings

Add remove unit

Add/Remove users

Add modify roles

Backup database

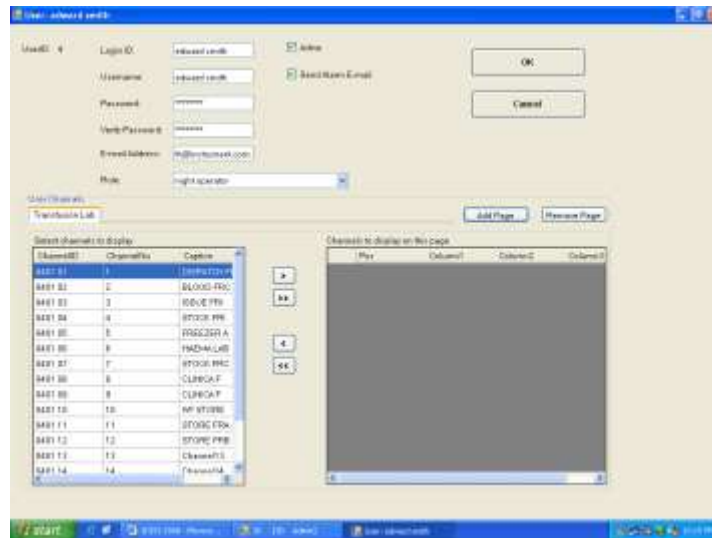
The first step is defining the types of roles most suitable for your organizations; these may generally by defined as follows:

- System administrator whose role is to setup users, set up users roles and privileges, run the software, view audit, set channels names, alarm limits, acknowledge alarms etc. In short the administrator is the person in charge of operating the system with over responsibility of data security and correct function of the system to meet the goals for which the system was purchased.
- System Supervisor, this will be responsible person with limited privileges such as running software, stopping software, acknowledge alarm, set channels alarm limits, select channels and remove channels from service, print reports and graphs
- Operator, this user will have limited privileges such view real time data, acknowledge alarms, print reports and graphs.

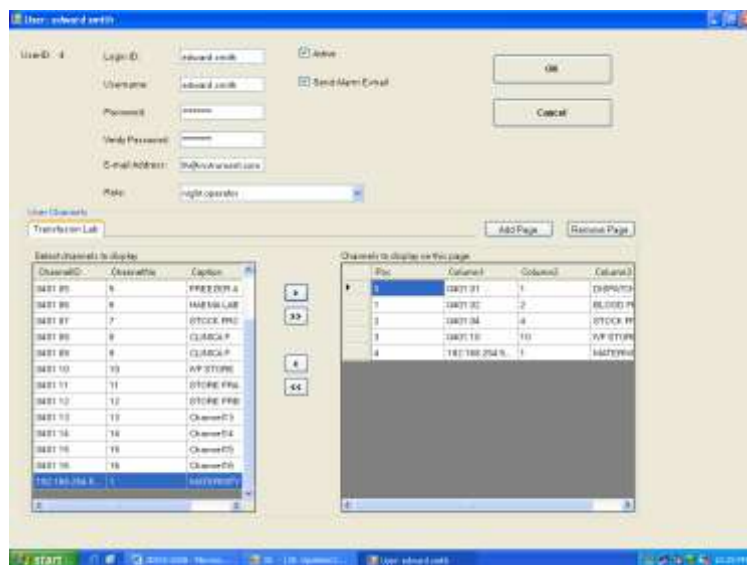
To set or modify Administrator function, click on Administration:

Enter the default user name and user password which are: Admin and threed respectively. After you have entered the name and password, the following screen will be displayed:





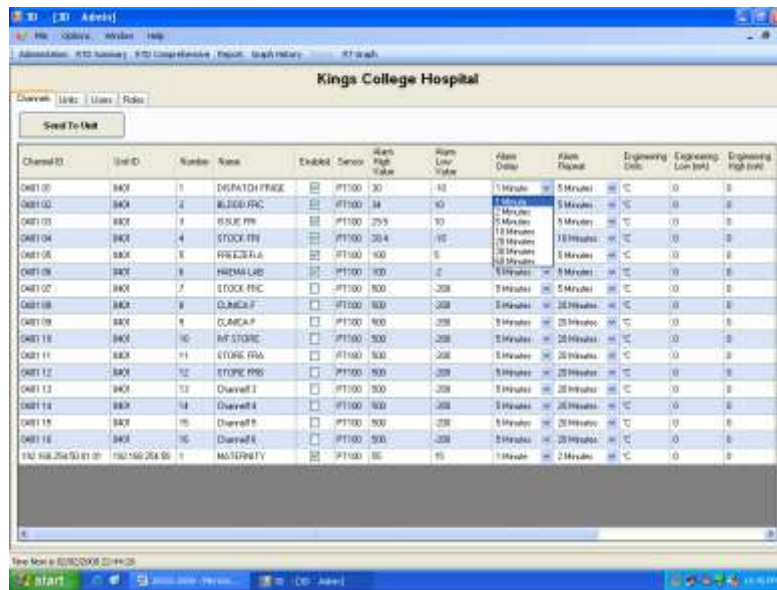
Login ID, Username, Password and password verification should be entered by the user and the role and active state should be selected by the administrator. Clicking OK will promote the Administrator to Add Page, this allow the selection of the locations this specific operator may view, enter the page as Transfusion Lab, next the channels to be viewed by this user. Now select the channels to be displayed when this user logon. 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 <. It is also possible to have more than one area to be viewed by the same operator.



A typical user screen is shown  
 The user parameters may be modified or removed from the database.

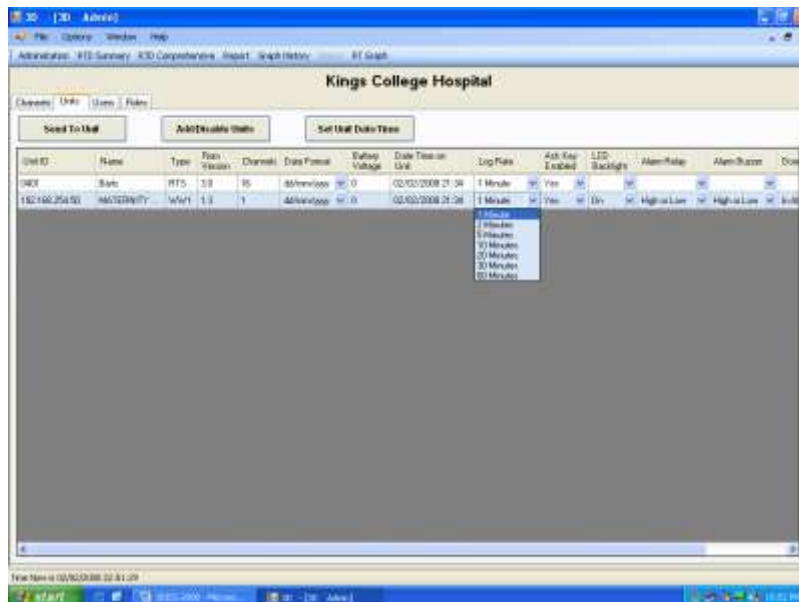
- The next step is to configure the system hardware parameters such as setting:
- Channel Name
- Channel High Alarm Temperature
- Channel Low Alarm Temperature
- Channel Alarm Time Delay before the alarm is activated
- Channel Alarm Repeat Period after alarm has been acknowledge

Channel Digital Input Function such as door open or door close  
 Channel Door Alarm Repeat Period, this applies to the Ward Watch only.  
 To change the channel configuration, select Administrator and click on the corresponding parameters to be changed



After selecting the channel configuration, click on Sent To Unit box and this will update the database at the same time configure the hardware.

The next stage is to configure the data loggers as complete units, click on Administrator and then click on units

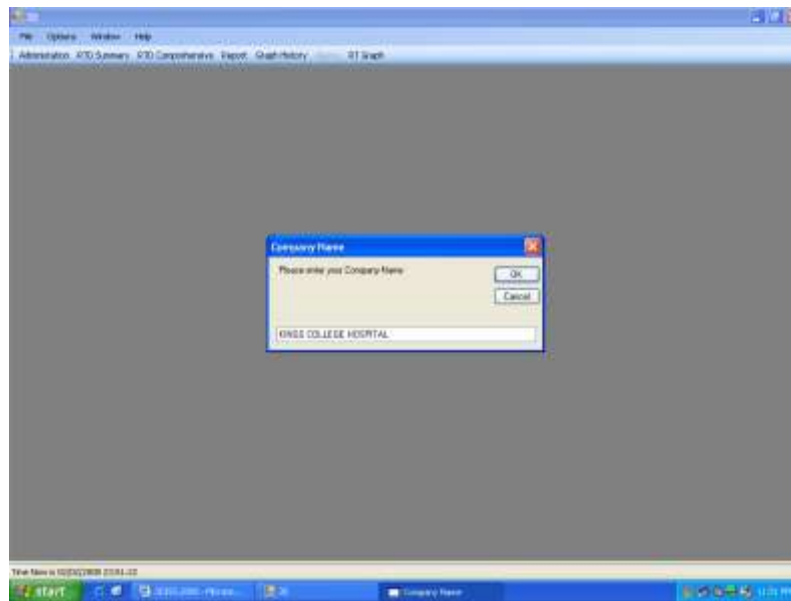


From this screen it is possible to change the hardware name, such unit name, log rate and enable or disable the alarm mute key on the hardware. After configuration click on to Send To Unit to transmit this information to the hardware and update the database.

**Changing Company Name**

Click on the tab marked file and select Company Name, the following screen is displayed

Enter the Company Name and click OK



The Company Name will be display on all reports, graphs and real time data

**Real Time Data Display**

The software supports the following real information:

- a Summary RTD
- b Detail RTD
- c Real Graph of multiple channels
- d Graphical display of last hour of any active channel

Click on RTD and the following screen will be displayed

**RTS**



This screen displays the channel names and current temperature of the active channels. By moving the cursor over a given tile detailed information displayed from the selected channels  
 Channel ID  
 Channel Name  
 Latest Reading

Alarm High Limit and Status

Alarm Low Limit and Status

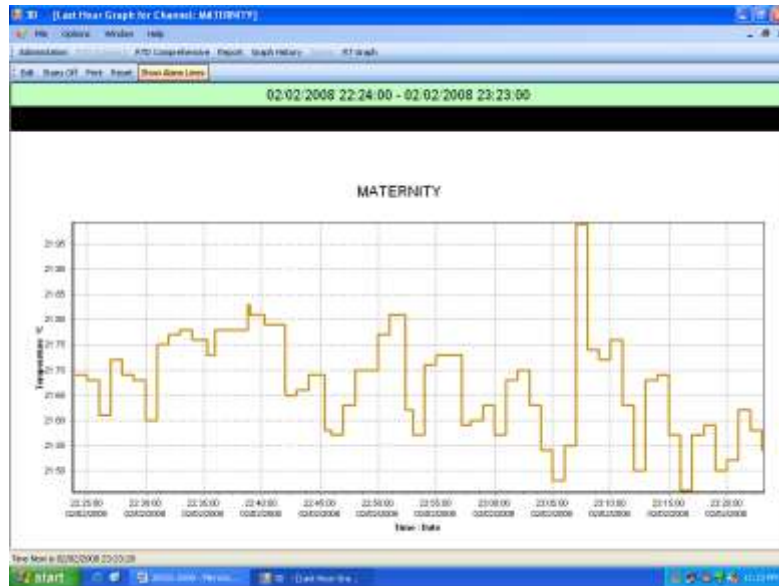
Alarm Acknowledged

Door Status

This information is useful for an operator who is not familiar with the system setup

### **Last Hour Graphical Display**

By click inside the tile of any channel the following screen will be shown:



It is also possible to show the high and low alarm limits of the selected channel by clicking on the tab label Show Alarm Lines which will display the high alarm limit in red and the low alarm limit in blue



### **RTS Comprehensive**

By clicking on this tab a real time system parameters display will be shown.

Channel ID	Name	Last Reading Date/Time	Reading	Unit	Door Alarm State	Alarm Low Value	Alarm High Value	Alarm Acknowledged	Alarm High State	Alarm Low State	Event Acknowledged
DMT 01	DISPATCH PRICE	00/00/2008 23:23	18.06	EPEN	OK	70	70	NO ALARM	OK	OK	NO ALARM
DMT 02	FLOOD FRC	00/00/2008 23:23	20.06	SPEN	OK	10	24	NO ALARM	OK	OK	NO ALARM
DMT 03	ESLE FRC	00/00/2008 23:23	19.50	SPEN	OK	10	23.5	NO ALARM	OK	OK	NO ALARM
DMT 04	ESLE FRC	00/00/2008 23:23	25.17	SPEN	OK	70	28.4	NO ALARM	OK	OK	NO ALARM
DMT 05	FRIGZER A	00/00/2008 23:23	18.28	CPEN	OK	8	186	NO ALARM	OK	OK	NO ALARM
DMT 06	HEMMA LAB	00/00/2008 23:23	19.50	EPEN	OK	2	186	NO ALARM	OK	OK	NO ALARM
DMT 07	SLDCK FRC	00/00/2008 23:23	OFF	CPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 08	CLINCAP	00/00/2008 23:23	OFF	EPEN	OK	200	500	NO ALARM	OK	OK	NO ALARM
DMT 09	CLINCAP	00/00/2008 23:23	OFF	EPEN	OK	200	500	NO ALARM	OK	OK	NO ALARM
DMT 10	WF STORE	00/00/2008 23:23	OFF	EPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 11	STORE PNA	00/00/2008 23:23	OFF	EPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 12	STORE PNB	00/00/2008 23:23	OFF	EPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 13	Channel3	00/00/2008 23:23	OFF	EPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 14	Channel4	00/00/2008 23:23	OFF	EPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 15	Channel5	00/00/2008 23:23	OFF	EPEN	OK	300	500	NO ALARM	OK	OK	NO ALARM
DMT 16	Channel6	00/00/2008 23:23	OFF	EPEN	OK	200	500	NO ALARM	OK	OK	NO ALARM
102-146-254-50:21:00	WALL PRTTY	00/00/2008 23:22	21.77	CLOSED	OK	75	75	NO ALARM	OK	OK	NO ALARM

This screen displays the following information:

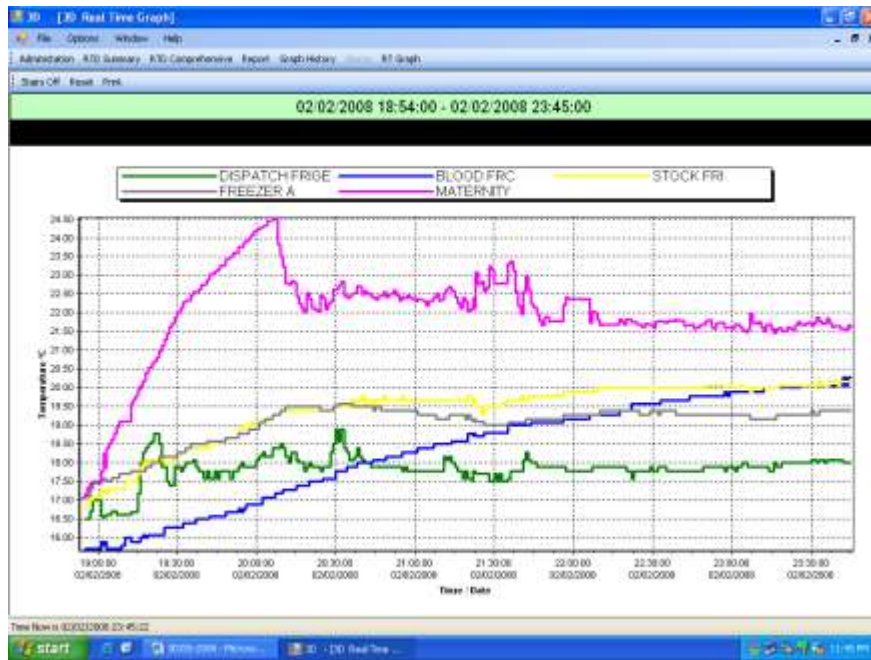
- Channel Name
- Time & Date of latest reading
- Channel reading
- Door Status i.e. door open door close
- Door alarm Status
- Alarm Low Value
- Alarm High value
- Alarm Acknowledgement
- Alarm High State
- Alarm Low State
- Door alarm acknowledged

**Multi-Channel Real time Graph**

Clicking on the RT Graph will display the following selection menu:



Click on the channels to be viewed as real time graph and then click OK  
The following screen will be displayed



This graph shows the selected channels in real time which will scroll along the time axis.

This graph may be printed.

Graph parameters such as axis colour, channel colour and back ground colour may be changed by using the Edit Graph option

### System Alarms

The 3DISS software provide the following alarms as standard:

- Internal alarm buzzer
- Flashing led
- Alarm PopUp Screen
- PC sounder
- Email alarm to a list of user selectable operators

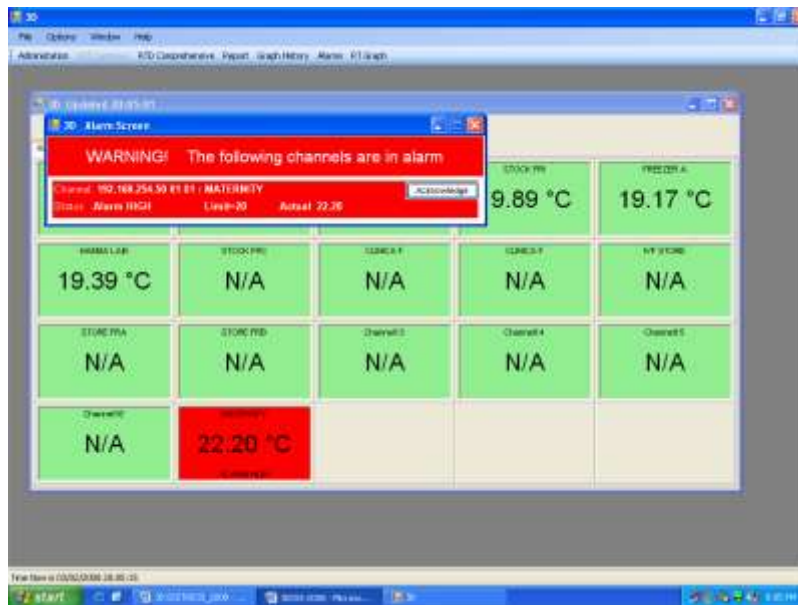
There are two level of alarm:

- a Warring Alarm
- b Critical Alarm

The warring alarm will cause the channel display to turn amber and the text will indicate alarm delay shown below:



After the elapse of the alarm delay, the local buzzer will sound and the PC screen will be as follows:

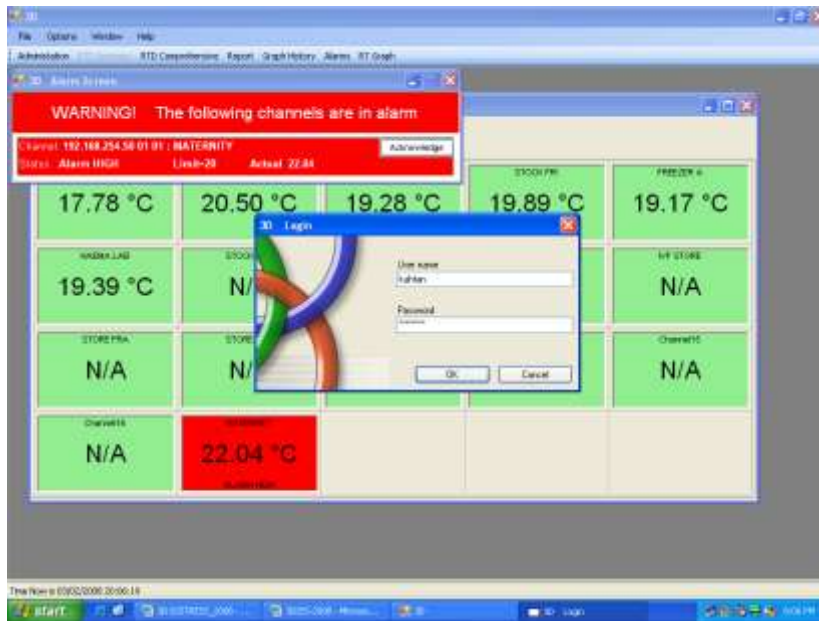


The background of the channel in alarm will change from amber to red and the alarm popup screen will appear.

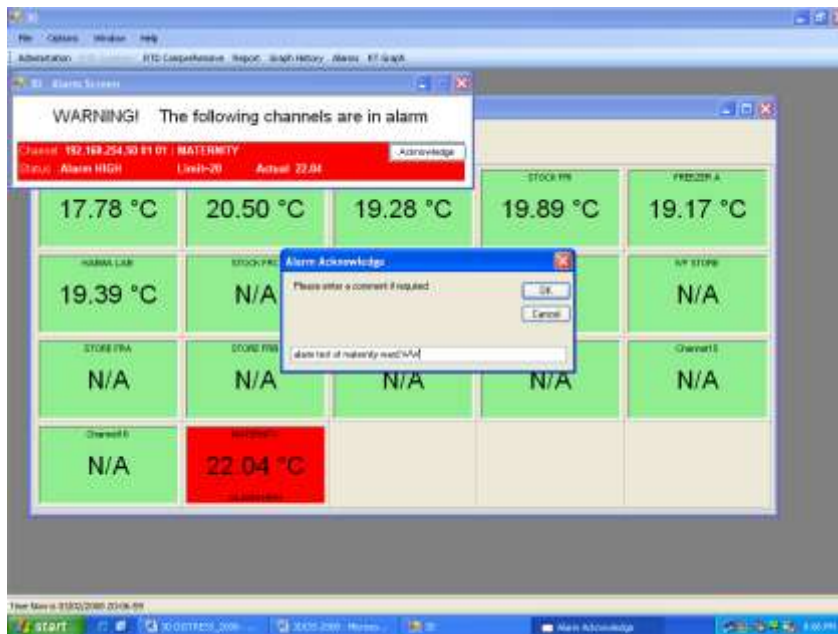
The alarm popup screen displays the following information:

- Channel ID
- Channel Name
- Alarm Type
- Alarm Setpoint
- Actual Channel Temperature

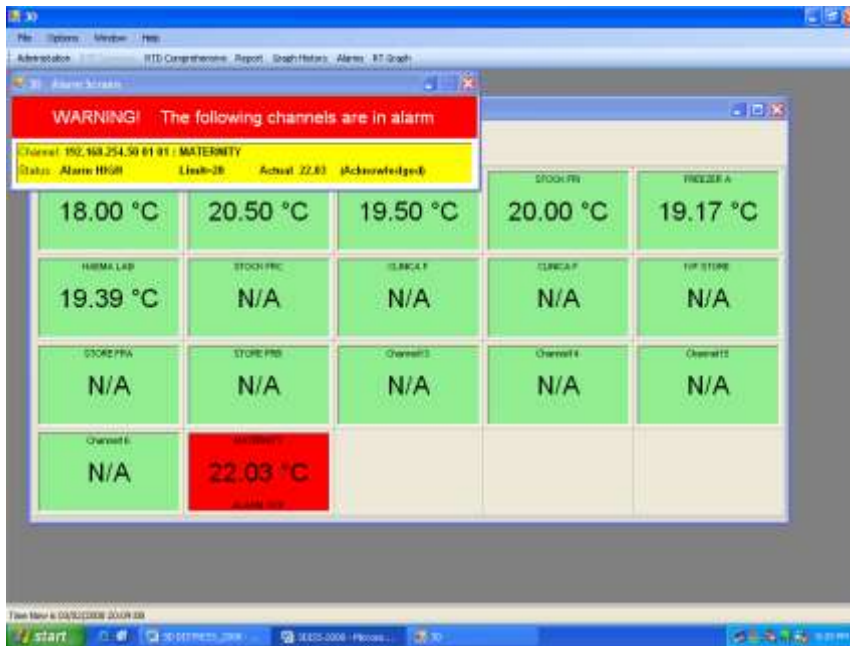
To acknowledge the alarm the user needs to click the Acknowledge box, this will now display the user login screen which requires user name and password



After this, the “cause and corrective screen is displayed as shown below. The user now needs to enter a comment regarding the cause of the alarm and the action taken to rectify the alarm cause.

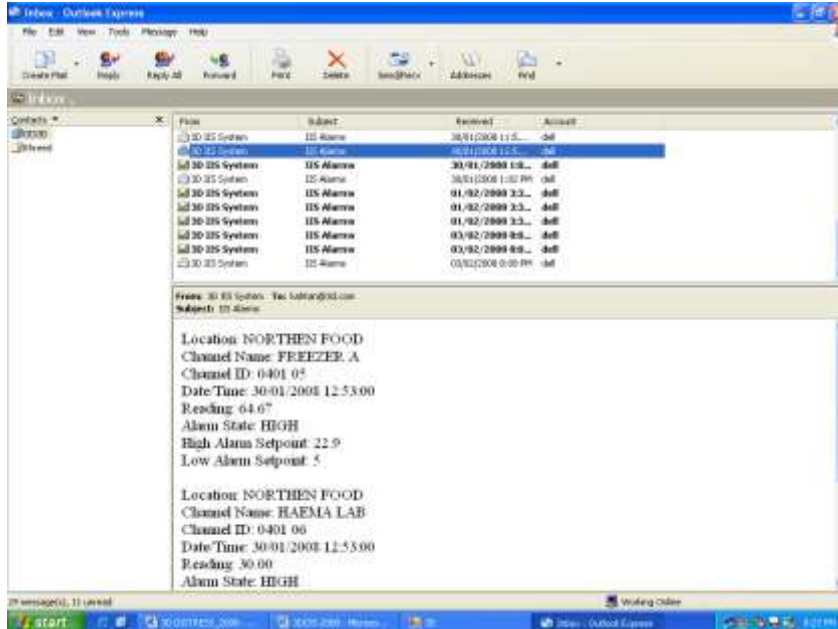


After the alarm has been acknowledged the alarm buzzer is muted and the alarm popup screen changes the alarm acknowledge screen as shown below.



This alarm acknowledge screen remain active as long as the channel temperature remains outside the limits and will disappear only when the channel return to normal operating limit. The actual alarm popup screen will become active if the channel stays in alarm for a period longer than the Alarm Repeat After Alarm Acknowledgement Period.

After the alarm popup screen appears an email message is sent to all operators. The email message is as shown below

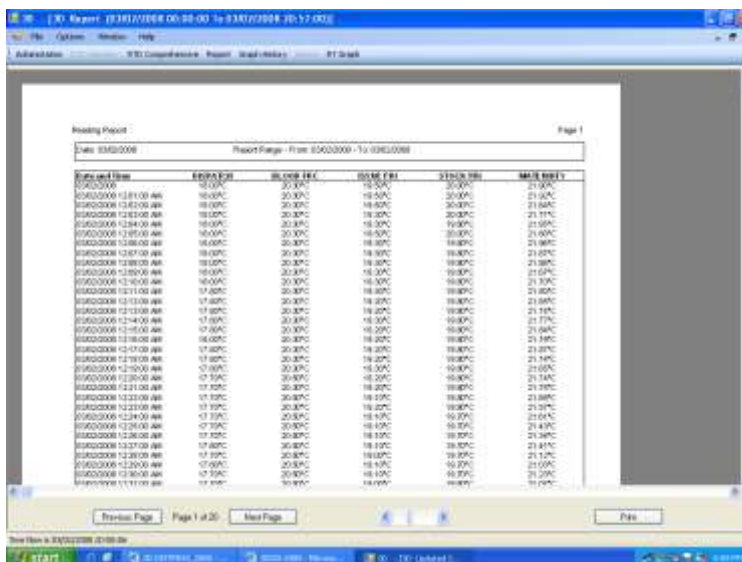


In addition the alarm acknowledgement email will be sent. Thus all operators will have email recorders of all alarm and alarm acknowledgement.





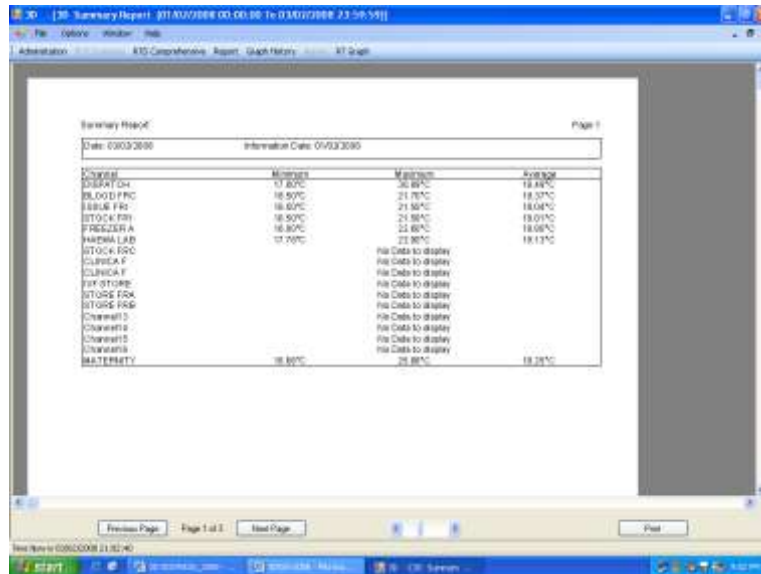
Then click OK.  
The following screen will be displayed:



There may be a number of pages in the report depending the report period and the log rate.  
To print the reading report click on the Print box. Please note that only six channels may be printed on the report.

**Summary Report**

From Report screen select the period over which to view data summary, click on summary and the following screen will be displayed:



This shows channel name, Maximum, Minimum and Average Readings, to print this report click on Print box.

**Event Report**

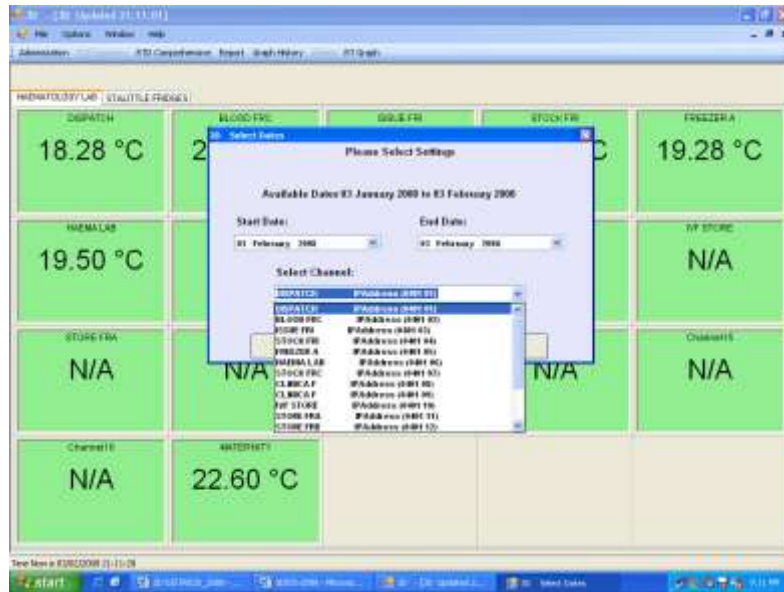
From the report screen, select the period to view and channel, then click on Event. Click Ok to view the event report over the selected period:



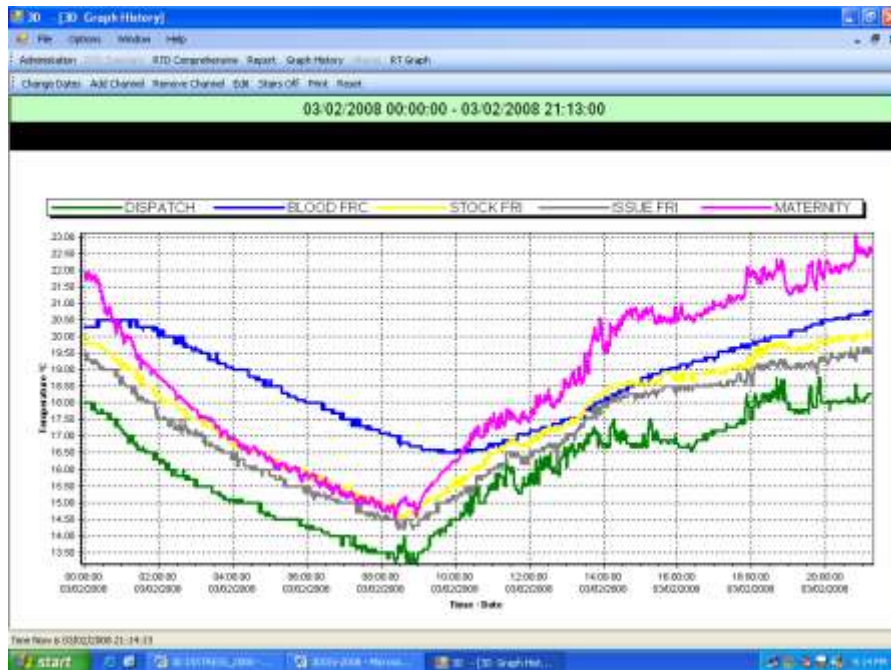
Again to print this report, click the Print box.

**Graphical Report**

To view logged data in graphical form click the tab labelled Graph History and select the period you wish to view and then click on selected channels, and then click OK to view the graph.



The following screen now is displayed:



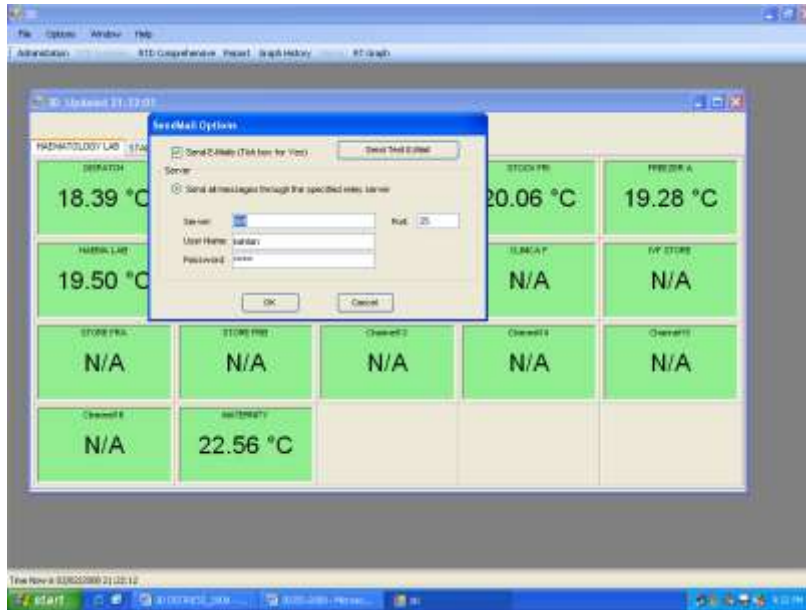
From the history graph it is possible to add or remove channels, edit the graph parameters such background, axis colour, channel colour, zoom in, zoom out and graph print.

### Archived Data Backup

From the File tab select Backup Database and then select the directory to which to backup the database.

### Email Setting

From the file tab select Email setup, the following screen will be displayed:



This allows you to select  
 Server Name  
 Port No.  
 User Name  
 Password

After setting up users email it is advisable to send a test email to ensure that the link is has been set correctly.

**Data Export to Excel**

To export data to Excel file click on the Option tab and the select Export to Excel, the dates and then click OK



Type the full path where you wish file to be saved.