



In Store User Guide 1.0



Tektroniks



Ensure that all power is switched off before installing or maintaining this product.

TekTroniks Limited
Manvers Business Park
High Hazles Road
Cotgrave
Nottingham
NG12 3GZ

Tel : + 44 (0)115 989 0090

Fax : + 44 (0)115 989 0048

Email :

enquiries@tektroniks.co.uk

www.tektroniks.co.uk

This device contains FCCID: XAXYASY210007

This device complies with part 15 of the FCC rules

. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received including interference that may cause undesired operation.

Changes or modifications to this equipment, not expressly approved by the Tektroniks Ltd, may void the user's authority to operate this equipment.

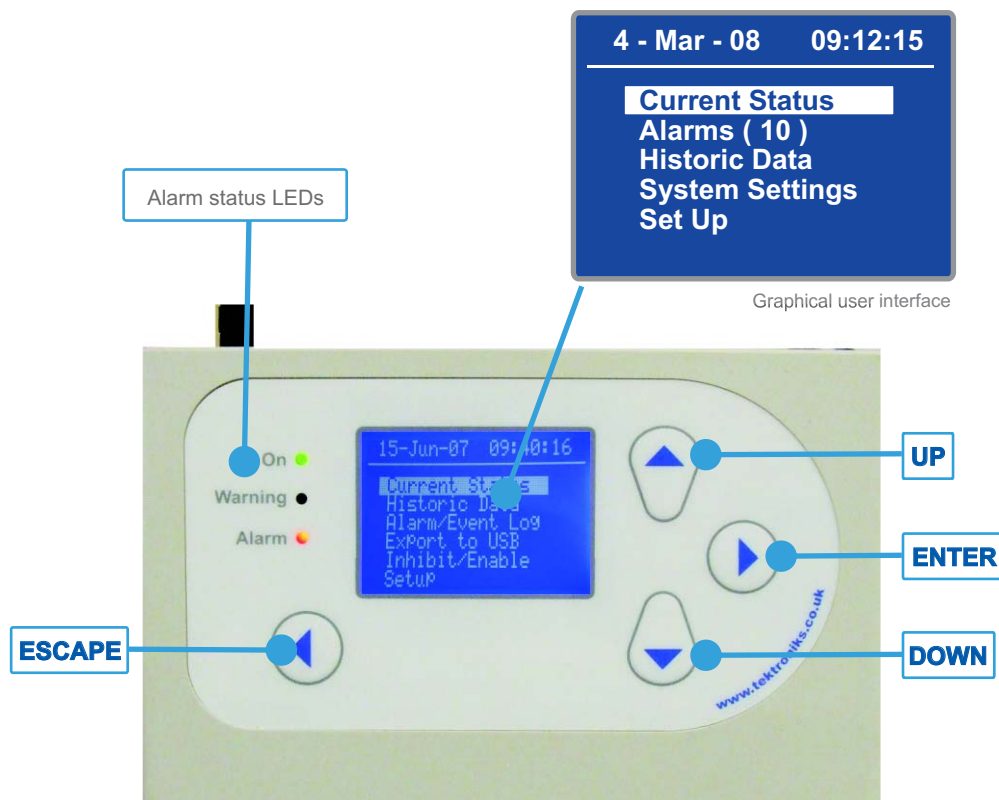
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System Overview

The unit provides a simple graphical interface allowing the user to view real time status, system set points and historical data.

In addition to the on screen display of data, the internal ethernet port allows for connection of a PC to interrogate the system via a standard web browser.



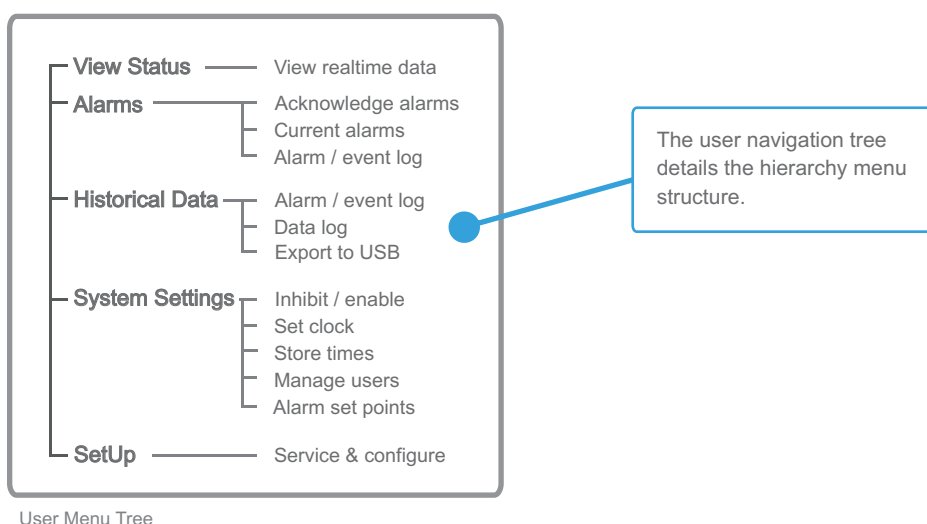
A series of status LEDs located along side of the display provide a simple overview of the system status and pending alarms.

Navigation

The display comprises of a series of menus. The navigation keys (up , down, escape and enter) are used to move the cursor around the screen and in and out of the different menus.

The up and down keys move the cursor directionally.

The enter key selects and enters the menu while the escape key is used to exit the menu.



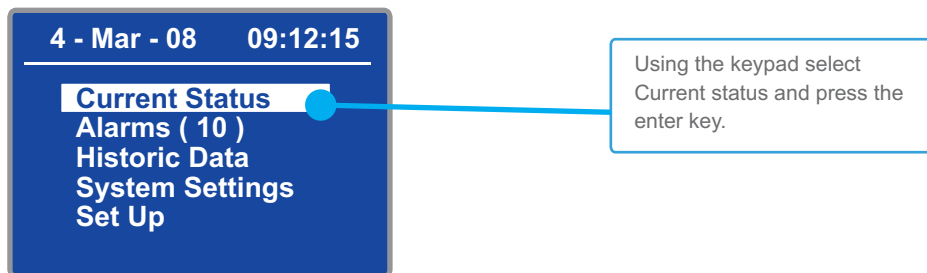
Some menus require the user to change values or enter numbers. In general the cursor width will change to indicate whether you are either changing a value or moving the cursor.

Use the enter key to toggle between the two options.

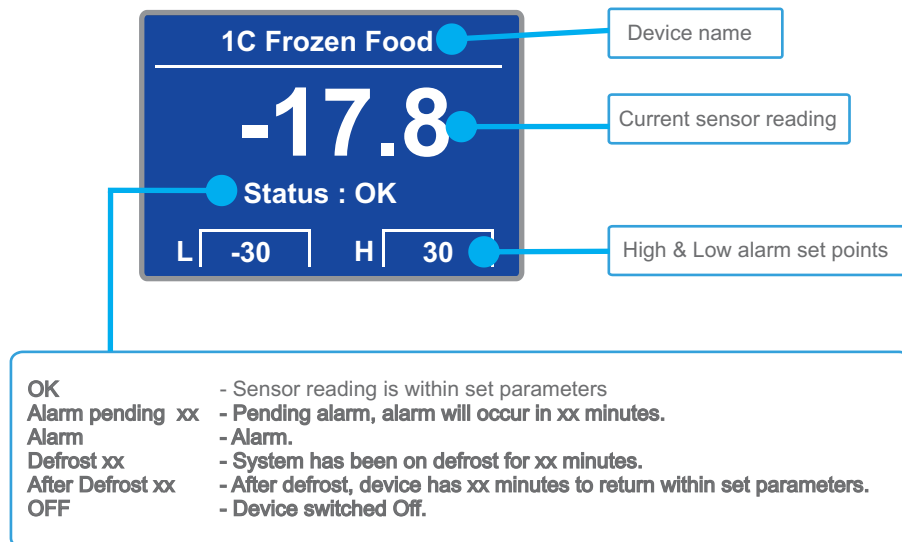
Status Screen

The status menu provides real time status information of the devices being monitored. Depending how the site is configured, an intermediate status screen may be displayed which details the overall status of each category.

From the main menu select "Current Status".



The screen will display the status screen as below. Use the keypad to scroll through the devices being monitored.



Alarms

Each monitored device has a set of alarm thresholds so that the unit can determine if it is functioning within set parameters. When a threshold is exceeded the system first generates a warning. During this period the status of the sensor will change to “Alarm Pending” and detail how long the device has been operating outside its limits. The warning LED will flash.

After the warning delay has expired the unit generates an alarm. The alarm buzzer will sound and the red alarm LED will flash. The audio alarm can be muted by pressing any key on the keypad.

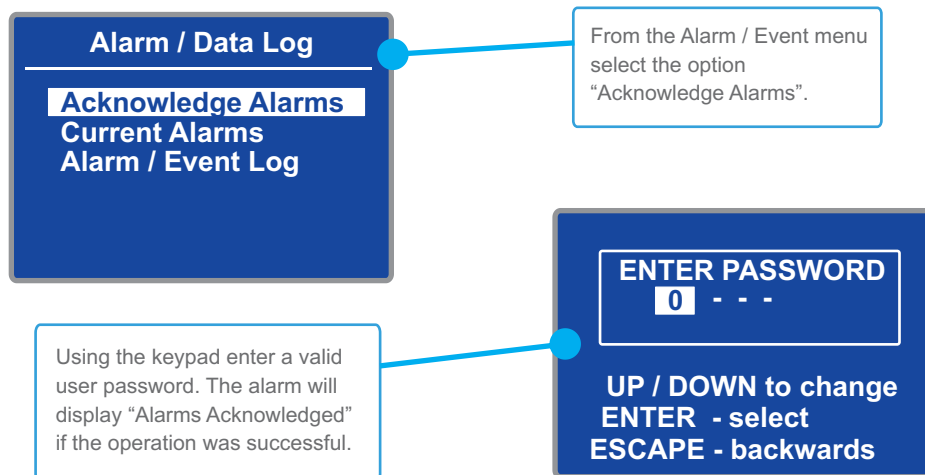
Accepting Alarms

In normal operation pressing any key on the keypad will mute the audio alarm and acknowledge the alarm.

The system can be also be configured so that the user has to acknowledge an alarm by entering a password. In this instance details of the user who acknowledged the alarm are also stored with the alarm event.

With the setting of acknowledge alarms on, the device will continue to be in an alarm state until the user has acknowledged it, even if the alarm has cleared. The audio alarm will restart every 10 minutes until the alarm is acknowledged.

All alarm functions are under the heading “Alarms” on the main menu.



Reviewing Alarms

Every alarm event is logged internally with the time, date and the value that the sensor reached. Historical alarms are categorised into two lists (see below), which can be reviewed from the alarm menu.

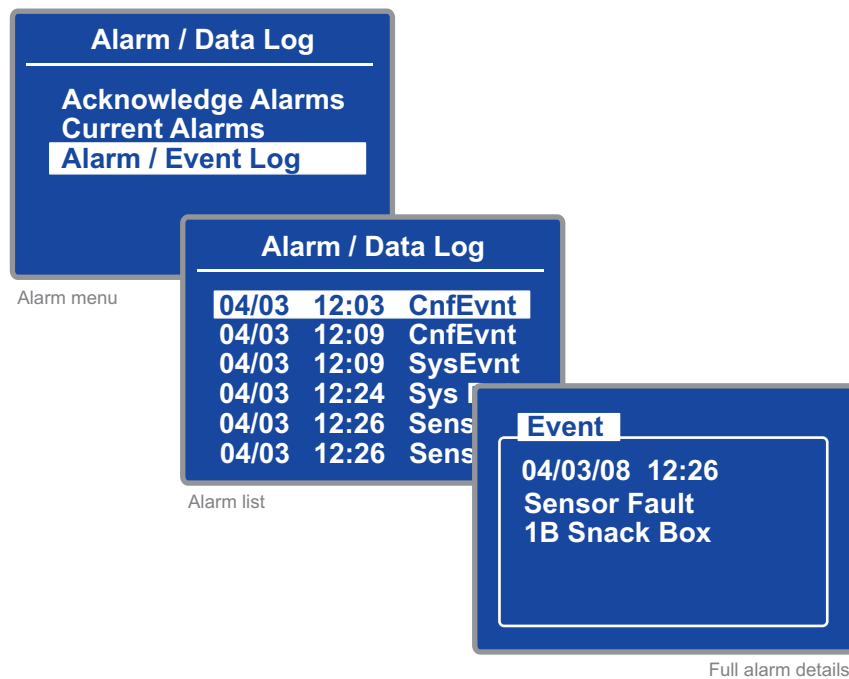
Current Alarms

This lists all current alarms on the system. A current alarm is an alarm where the device is still in an alarm state or where the alarm has cleared but has not been acknowledged.

Alarm / Event Log

Displays a list of every alarm that has occurred on the system in time / date order.

After selecting the required list, the alarm history can be interrogated further by positioning the cursor over the alarm and pressing the enter key.



Inhibiting Alarms

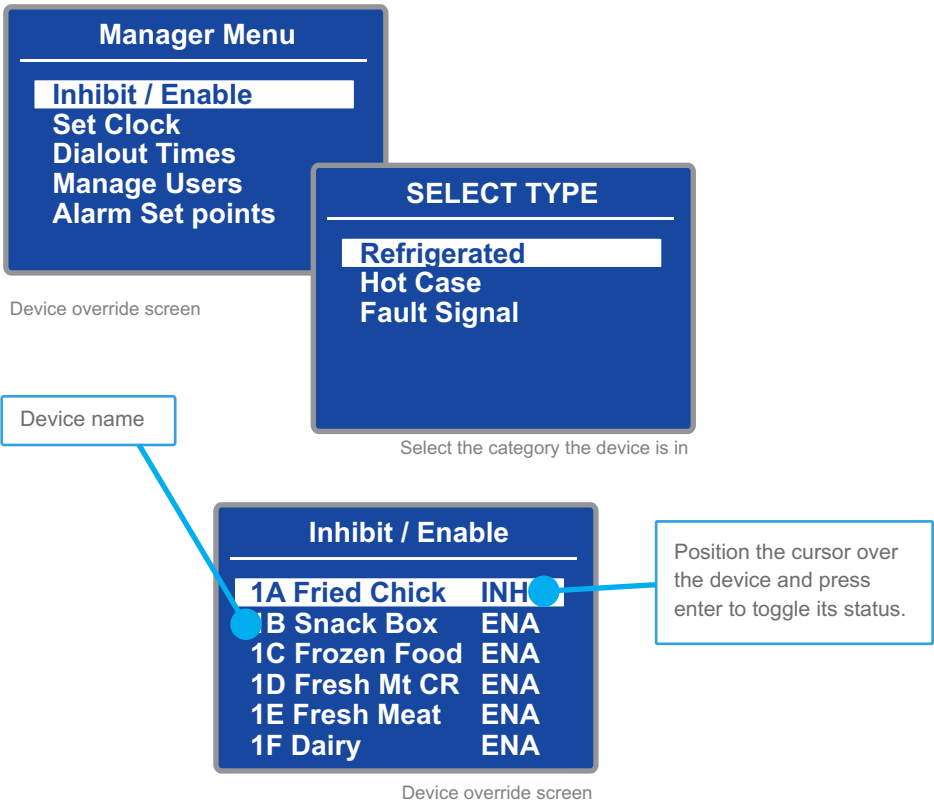
Devices can be excluded from generating alarms by changing their state to inhibited. Only users with the correct access rights have the ability to inhibit alarms.

When a device is inhibited it will NOT generate ANY further alarms.

An entry will be made into the alarm / event log that the device was inhibited together with the time and date and the user details.

Devices can be re-enabled at any time.

To inhibit a device, select “System settings” from the main menu and then select “Inhibit/Enable”. You will be prompted for a password. Select the category that the device is in. The screen will then display a list of devices. Use the directional keys to scroll through the list and press enter to toggle the status between Inhibited and enabled.



Manager & User Settings

Some of the functionality within the system requires different levels of user access.

The Manager can add and remove users from the system and provide different levels of privileges. Up to five users (including the manager) can be active at any one time. Different privileges include;

Acknowledge Alarms

Allows the user to acknowledge alarms.

Override

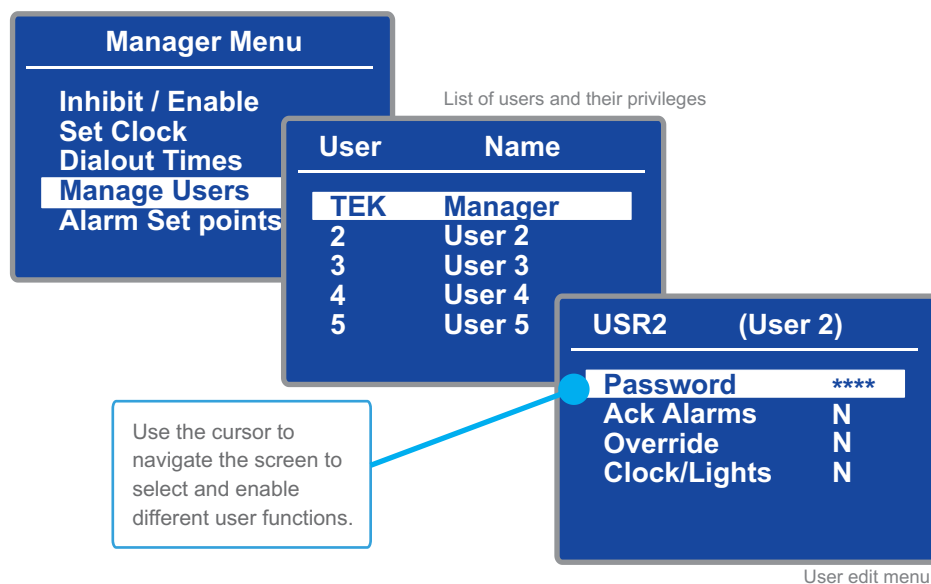
Allows the user to inhibit devices from generating alarms and initiate and terminate defrosts.

Change time, date and lighting times

Allows the user to access the scheduler and change lighting and zone times.

Any actions that require a user to enter a password will be logged in the system event log together with details of what was done and with their initials. Only a Manager or service level password can access this menu. Other users regardless of their privileges will be locked out.

To setup user options select "System Settings" from the main menu then "Manage Users".



Lighting Schedules and Store Times

The unit has a built in scheduler that can be used to manage timed functions of devices connected to the system. A good example of this is the store lighting times. The system supports up to five schedulers with each one providing a seven day timer with selectable ON and OFF times per day. The first two timers are dedicated to store times and case lights.

Store Times

Sets the operating hours of the site. This is linked in with the alarm output and can be used to manage external alarms outside normal working hours.

Case Lights

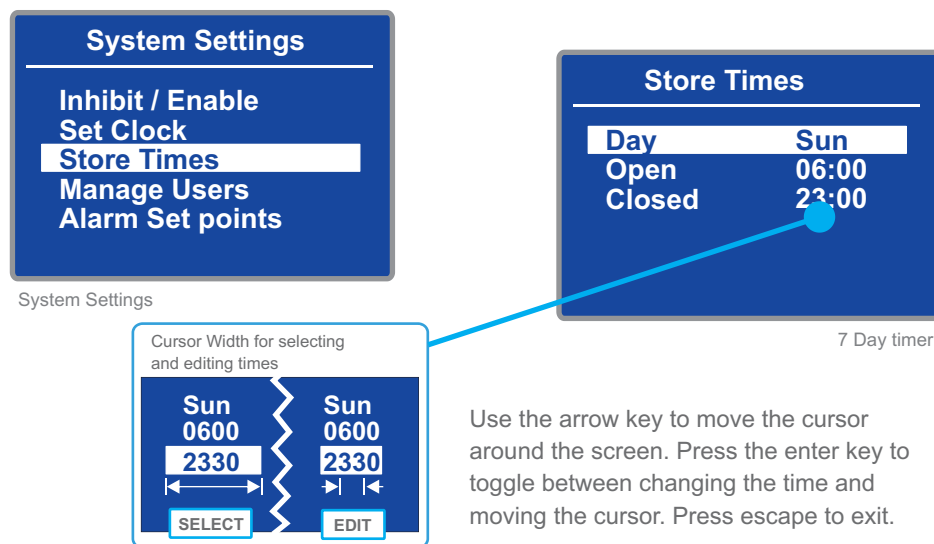
This timer becomes active when case controllers are connected to the system. This timer controls the state of the case lighting via a case controller..

Zone 1-3

These are three general purpose auxiliary timers that can be used to switch things ON and OFF over a seven day period. To use this function the system must have a networked zone controller connected.

Due to the limited room on the display, the user is currently limited to changing only the store times on the unit. All other zones must be done from the web.

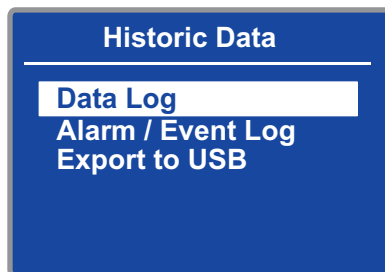
To change the store times, select "System settings" from the main menu then select "Store Times".



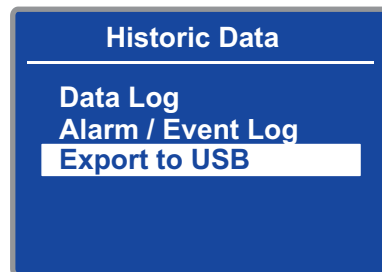
Archived Data & Exporting to USB

Data is stored internally at one minute intervals for up to five years. It can be viewed locally in tabular or graphical form directly from the display or exported to a USB memory stick for further analysis.

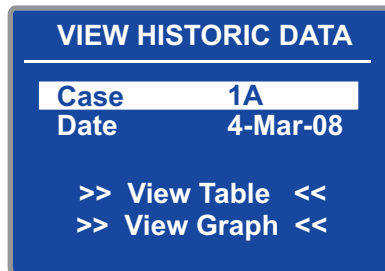
Together with the sensor data, the system also stores the High and Low alarm thresholds which can be displayed along side the data. This makes it easy to see when limits are breached and for how long, enabling clients / users to make informed decisions in the event of system breakdowns.



Historic menu, data log



Historic menu, export to USB

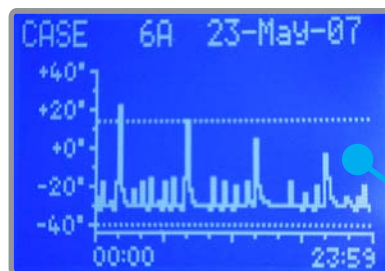


Select device and data period



Select USB report

Select the reports style.
Ensure that your USB memory stick is not removed during this operation.



High and low alarm thresholds represented by dotted lines.

Data displayed in graphical format

Accessing Web Pages via a PC

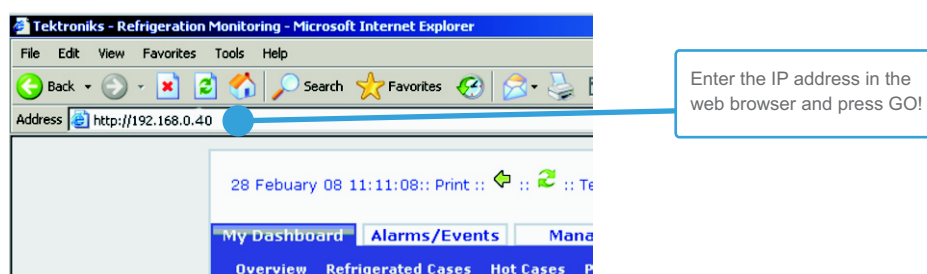
The system can be accessed by using a PC connected to the ethernet connection.

If a PC is connected directly to the unit then a cat 5 crossover cable must be used.

If the PC is connected via a LAN either through a Hub or a switch then the connection must be made via a standard patch cable.

The default IP address is : 192.168.0.40.

However this may have been changed when the system was installed. Please contact your IT administrator for more information.



Once you have typed in the IP address the system will prompt you for your user name and password.

Please note that the user name is case sensitive.



Prompt for User Name and Password

Overview Device Status

The overview device page provides a more detailed overview of the individual devices within a category.

The screen will display up to ten items per page. The next / previous buttons allow you to move between pages.

For a more detailed look at the device simply select the device name.

Next / previous pages

27 February 08 17:40:30:: Print ::

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My Dashboard Alarms/Events Manager Setup

Overview Refrigerated Cases Plant Scheduler

Refrigerated Cases: Overview << Previous | Next >>

Reference	Description	Low	High	Current Temp	Status
1A	Produce	-5	7	1.7	Ok
2A	Produce	-5	7	1.9	After Defrost
3B	Produce	-5	7	0.1	Ok
4A	Dairy	-5	5	9.5	Defrost
5B	Dairy	-5	5	-0.3	After Defrost
6A	Fresh Meat	-8	5	-1.1	Ok
7B	Fresh Meat	-8	5	10.4	Defrost
8A	Dairy	-5	5	-0.9	Ok
9B	Dairy	-5	5	-1.2	Ok
10A	Dairy	-5	5	-1.2	Ok

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Link to more detailed device status

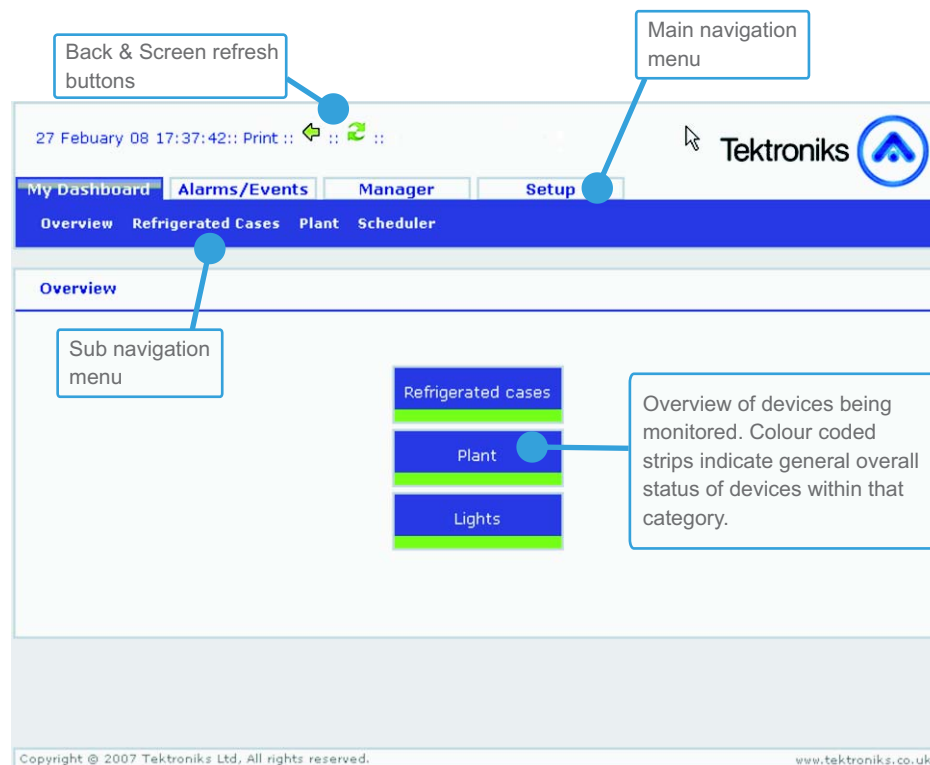
Colour coded status screen providing alarm thresholds, real time data and status

Home Page

The home page gives you an overview of how the system is operating together with links to all other functions.

The page consists of a main menu and sub menu as indicated in the diagram below. Click on a tab from the main menu and the sub menu will change offering the items available for that menu.

The boxes in the centre of the screen provide a general overview of devices being monitored. Colour coded strips indicate the overall status of devices within that category.



Reviewing Alarms

The Alarm / Events tab provides links that display alarm information held within the unit.

27 February 08 17:44:25:: Print : : : :

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My Dashboard **Alarms/Events** Manager Setup

Current Unacknowledged **Historical**

Alarms: History << Previous | Next >>

Date	Time	Reference	Device Name	Alarm
26/02/08	10:27	29A	FrozenFd CR	Alarm
25/02/08	12:29	29A	FrozenFd CR	Alarm
25/02/08	11:59	29A	FrozenFd CR	AftDefWarn
23/02/08	13:54			System Reset
23/02/08	12:00	29A	FrozenFd CR	AftDefWarn
22/02/08	12:49	29A	FrozenFd CR	Alarm
19/02/08	14:15	29A	FrozenFd CR	Alarm
17/02/08	12:00	29A	FrozenFd CR	AftDefWarn
16/02/08	08:33			Calendar Changed
15/02/08	14:37	30B	FrozenFd CR	Alarm

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Alarm details : Alarm

Device : 29A FrozenFd CR
Time / Date : 12:29 25/02/08
Reference : Air On -9.5
Current Status : Cleared

Acknowledged
User : sean
Time / Date : 12:34 25/02/08

Close

Alarm detail screen

Detailed Status

This page provides a detailed view of all real time data, device set points and links to archived data

27 February 08 17:42:22:: Print ::

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My Dashboard Alarms/Events Manager Setup

Overview Refrigerated Cases Plant Scheduler

Refrigerated Case Detailed

View Graph Export to CSV 3B - Produce << Previous | Next >>

Current Status

Current Status	Ok	Evaporator Inlet	-6.9 °C
Air On	2.3 °C	Evaporator Outlet	3.2 °C
Air Off	0.6 °C	Defrost Probe	0/C °C
Calculated Product Temp.	1.7 °C	Superheat	10.1 °C
Auxiliary Probe	FLT °C	Valve percentage Open	7.0

Alarm Set Points

Control Set points

Defrost

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Historical data

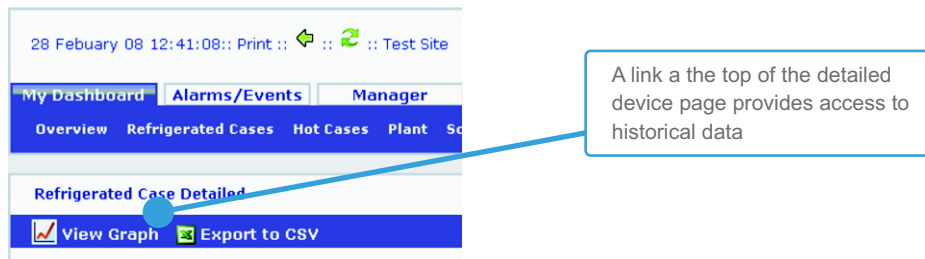
Quick link to other devices within the same category

Folders containing further information

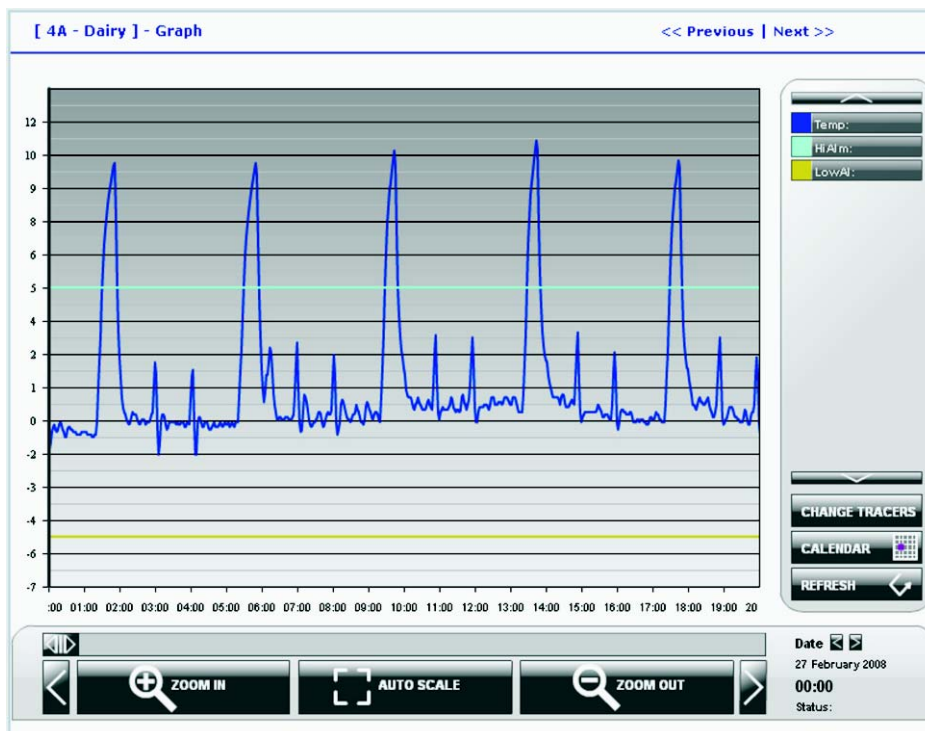
Details device status with real time data

Viewing Archived Data

A link at the top of the detailed device page provides access to archived data.



Using the buttons on the screen you can select different dates, change the traces displayed and zoom in and out.



Scheduler

Displays the current status of each general purpose timer and a link for each timer for a more detailed display of their associated On and Off times.

The screenshot shows the Tektroniks web interface. At the top, there is a header with the date and time '27 February 08 17:46:11', a 'Print' button, and the Tektroniks logo. Below this is a navigation bar with tabs: 'My Dashboard', 'Alarms/Events', 'Manager', and 'Setup'. Under 'Manager', there are sub-tabs: 'Overview', 'Refrigerated Cases', 'Plant', and 'Scheduler'. The 'Scheduler: Overview' section contains a table with two columns: 'Area' and 'On/Off'. The 'Area' column lists links for 'Store Times', 'Case Lights', 'Auxiliary Zone 1', 'Auxiliary Zone 2', and 'Auxiliary Zone 3'. The 'On/Off' column shows the status of each, all currently 'OFF'. A blue dot on the 'Auxiliary Zone 1' link has a line pointing to a callout box that says 'Link to a detailed view of each zone'. Another blue dot on the 'OFF' status for 'Auxiliary Zone 1' has a line pointing to a callout box that says 'Current status of each zone'. The footer of the page includes 'Copyright © 2007 Tektroniks Ltd, All rights reserved.' and the website 'www.tektroniks.co.uk'.

Area	On/Off
Store Times	OFF
Case Lights	OFF
Auxiliary Zone 1	OFF
Auxiliary Zone 2	OFF
Auxiliary Zone 3	OFF

Link to a detailed view of each zone

Current status of each zone



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