

TREND

IQView Manual Issue 2/C

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1 ABOUT THIS MANUAL

This manual applies to IQView version 1.3. It provides a description of how to use the IQView once it has been installed and engineered, and how to install and engineer it. It is assumed that the user has knowledge of BMS. It is divided into several sections.

About IQView? This section describes IQView, and how it works.

The IQView Displays. This section explains the different parts of the IQView display.

Using IQView. This section describes how to use IQView once it has been installed and engineered.

Installation. This section provides a brief description of the installation process.

Engineering IQView. This section describes the process of engineering IQView and describes how to perform all the necessary tasks.

It is recommended that the Engineering section be read before trying to perform any engineering to ensure that the engineering process is fully understood.

After having read and fully understood this manual the user will be familiar with IQView, making changes to plant parameters, coping with incoming alarms, and all other aspects of using the it on a day to day basis. Other relevant documentation is:

IQView Data Sheet (TA200636)
IQVIEW../RPM Installation Instructions
IQVIEW../SM Installation Instructions
Trend Product Data Sheets

These documents are available on the Trend Data CD-ROM. To ensure you have the latest issue of these documents check the Trend WEB site (www.trend-controls.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.

- Menu commands are in **bold** type.
- Buttons, and options in dialogue box that you need to select are in **bold** type.
- The names of text boxes and dialogue boxes are in **bold** type.
- Key combinations that you should press appear in normal type. If joined with a plus sign (+), press and hold the first key while you press the remaining one(s). For example, CTRL+P indicates holding down the control key while pressing P.
- Text you should enter is in *Italic* type.

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2 ABOUT IQVIEW

IQView is a touch screen display that provides a self-configuring user interface to the IQ system. The IQView software presents the user with the Windows operating environment. System navigation is provided via a tree structure, that enables controller selection, and hence access to modules, graphs, alarms, and timezones.

Each item on a page may be selected for detailed information, graphing or adjustment. Icons and softkeys allow easy access to all the available information and functions.

Alarms can be sent directly to the IQView where they appear on a special display, an audible, and visual indication of the alarm is given.

It connects to the IQ network via a node controller (CNC), EINC, or directly to the IQ network. It can also be connected via the local supervisor of an IQ controller. It can access devices on a single or multi Lan system.

It is provided in two versions:

IQVIEW MONO/..
IQVIEW/..

IQVIEW MONO/.. has a black and white screen with RS232, and the IQVIEW/.. has a colour screen with RS232, Ethernet, and current loop Lan.

There are surface or rear panel mounting variants of each version with all units having a single relay output (e.g. for use with an alarm sounder) SD card slot, power/alarm LED, and real time clock.

View/Change Information

IQView provides the ability to view lists of modules in IQ controllers, and where necessary adjust knobs, switches, and timezone occupation times. Sensors that are being logged in the controller can be graphed. It also makes list of alarms available, will indicate modules that are in an alarm condition, see below for more details).

Alarm Handling

IQView can receive alarms from other devices on the system that have been configured to send alarms to the IQView. It also enables a list of modules currently in an alarm condition to be displayed, indicating individual modules in an alarm condition. It also provides access to the controllers alarm log. When IQView receives an alarm from another device on the system it can notify users by performing alarm actions such as flashing the screen, beeping, closing the relay output, or flashing the power/alarm LED.

Security

IQView can operate with or without security. When operating without security, anyone will have access to all of IQView's features, and the only security will be that provided by the controllers themselves. To make changes a user would need to know a PIN.

When security is enabled users are required to log in using a username and password. Once logged in what they can see and do is determined by their access rights. Users can be prevented from accessing particular controllers, or certain types of information. Changes to information in controllers is still protected by the security in the controller, but each user has an associated PIN that is used to authorise the change.

IQView enables up to nine different users to be set up. Two of these are pre defined to provide full access for engineers, and a lower level of access for general users. The other seven users can be set up as required to provide the appropriate facilities for different users.

2.1 System

IQView can connect to the network in one of three ways:

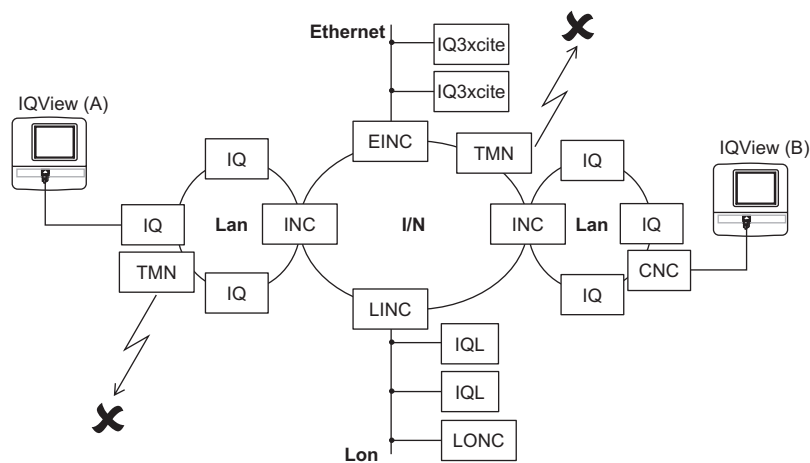
- RS232
- Ethernet
- Current Loop

2.1.1 RS232 Connection

The RS232 port on the IQView enables direct connection to the local supervisor port of IQ1xx, IQ2xx series or IQ3 controllers. For IQ1xx and IQ21x controllers this will give access only to that controller, but all other IQ2xx and IQ3 controllers provide access to the IQ network.

The RS232 port also enables connection to the IQ system current loop Lan via a CNC (e.g. NBOX/CNC2). The IQView RS232 baud rate should be set to match that of the controller's or CNC's RS232 port (normally 9k6).

The diagram below shows an IQView (A) connected to an IQ2xx with its local supervisor port set up. This gives the IQView access to the local Lan and across the internetwork to the other Lans. The IQView takes the network address set on the local supervisor port and the Lan number of the IQ's local Lan.

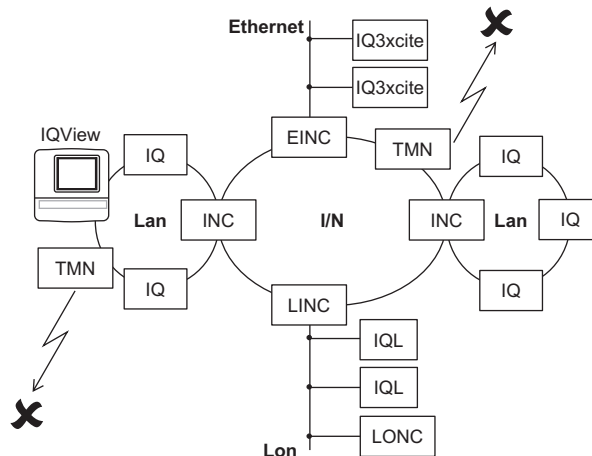


A second IQView (B) is connected to the network via a CNC. This IQView has similar access to the previous one and takes the address set up on the CNC's address switches and the Lan number of the CNC's local Lan. The EINC is set for internetwork extension on Ethernet, and gives access to the IQ3s. The LINC is set for internetwork extension on Lon and gives access to IQLs and LONC. The IQView's can neither access any autodialled sites (e.g. via TMN) nor receive alarms from them.

2.1.2 Current Loop Lan Connection

This enables connection of the IQView directly to the current loop Lan i.e. the IQView has an integral CNC. This requires the CNC address to be set to a valid network address, and the baud rate to be set to match the Lan baud rate.

The diagram below shows an IQView connected to the network via its current loop Lan connection. This connection gives the same range of access to the network as that given to the IQView with RS232 connection described previously.



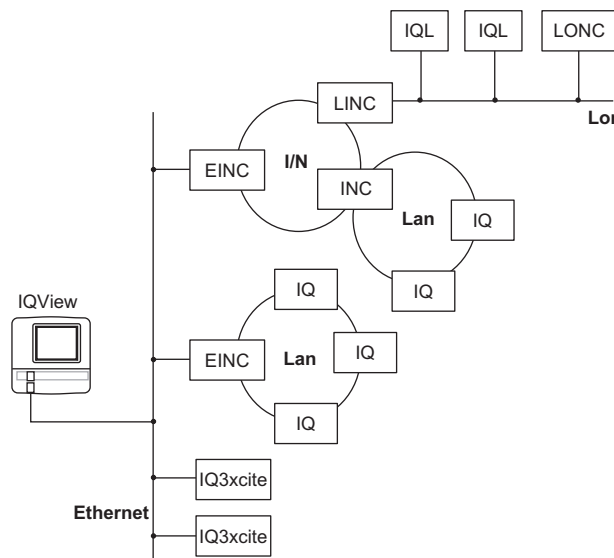
2.1.3 Ethernet Connection

IQView connects to the Ethernet network using an Ethernet hub and standard Ethernet cable. Once connected to the Ethernet network it must connect to the IQ network, to allow for maximum flexibility this can be done in one of two ways. It can connect directly as a device to a Lan built on the Ethernet network (e.g. with IQ3 controllers) using its integral CNC, or to a virtual CNC in another device (e.g. IQ3 Controller, or EINC).

When connecting to Ethernet as a device the IQView will exist as a device on the IQ network. The time taken for the system to be available for mapping will depend on the configuration of IQView. This is described in the table below.

Configuration	Time before System is available for Mapping
Not lowest IP On Trend Local Lan	System will be available for mapping in < 30s from power on.
Lowest IP On Trend Local Lan	Local LAN will be available for mapping < 30s from power on. Internetwork will be available for mapping < 80s after power on.
Lowest IP On Subnet & Cross router Config	Local LAN available for mapping < 30 s from power on. Internetwork will be available for mapping < 130 s after power on.

The diagram below shows an IQView connected to Ethernet as a device on the same Lan as the IQ3 controllers using its integral CNC. It can access the IQ3s, and the IQ Lan connected via an EINC in Ethernet INC mode. It can also connect via the EINC in Ethernet internetwork mode to another IQ Lan and also via a LINC to some IQLs.



Connection to a virtual CNC in another device should provide instant access to Lan and internetwork maps, provided the system being connected to is stable, that is it has been powered up for some time, and all nodes are correctly configured. The IQView will still receive network alarms as experienced by the device it is connected to (unless these are deliberately filtered out in IQView).

To use an Ethernet connection, the IQView must have its own IP address, its subnet mask, and the default router (router) IP address defined. These settings can be obtained automatically from a DHCP server if one is operating on the Ethernet network segment, automatically negotiated, or they can be set up manually. If set to automatically obtain its IP address settings and a DHCP server is not available IQView will automatically negotiated its IP address with other devices on the Ethernet segment.

If connecting directly to a Lan it is also necessary to specify the Lan number, and network address. If connecting to a virtual CNC in another device it is necessary to specify the virtual CNC's details. These consist of the IP address of the device containing the virtual CNC, and the port number that of the virtual CNC within the device.

If required IQView can connect directly to the Ethernet port of an IQ3 controller via a standard Ethernet cable (Cat 5e unshielded, UTP, or shielded, FTP, with RJ45 plugs unshielded or shielded as appropriate) with a crossover adaptor (XCITE/XA/5, pack of 5 adaptors).

IQView monitors itself to ensure that it is operating correctly if a problem is detected it will automatically reset itself.

2.1.3 Building Lans and Internetworks

IQView will build a Lan with other IQ system devices that have the same Lan number.

When connected using Ethernet IQView will build an internetwork with other IQ system Ethernet device connected to the Ethernet network.

If there is more than one IQ system device on the same segment of the Ethernet network (no routers between them) using the same UDP port they will automatically form a single internetwork. If IQ3s and IQViews have formed Lans the device with the lowest IP address will assume INC functionality and will be included in the internetwork.

When there are routers on the Ethernet network and it is required for the internetwork to be built across routers a device that has been configured to span the routers must be installed on either side of the router.

If none of the devices are set up to span the routers they will be unable to build an internetwork across the routers, and will construct two separate internetworks as shown below. This is effectively two separate sites. For the sites to combine, at least one device on each network segment must be set up with the IP address or host name, and subnet mask of a device on the other network segment.

The information (host names/IP addresses and subnet masks) used to build the internetwork are setup in the remote devices table. It is recommended that the remote devices table be placed in all devices on the network and include the details of at least two devices from each subnet to be linked by the internetwork. For increased reliability details of additional devices should be specified. If automatic addressing is being used the devices must be specified using host names, and if manual addressing is being used the list should contain the devices with the lowest IP addresses.

IQView does not provide a user interface for setting up the remote devices table. The setup of the remote devices table for IQView is carried out using IPTool.

2.2 Software

The IQView application runs within a Windows CE.NET operating system. The software is upgradeable using the SD slot. The software presents the information in a number of different displays that are described in detail on the 'IQView Displays' section of this manual. The software also provides the facility to configure the following items:

- **IQView display:** Back light timeout, Sound when touching screen on/off, Contrast adjust (the contrast should be adjusted to suit the environment/viewing angle), recalibrate the touch screen
- **Time:** Set up IQView's time and date. Used to time/date stamp alarm acknowledgments, and for synchronising controllers (if required). The IQView can also be set up to receive system timemaster time synchronisation messages.
- **Ethernet Settings:** The IQView's IP address, subnet mask and Default router's (router's) IP address (required if the connection to the system is via Ethernet).
- **Connection:** Site name, and type of connection as described above.
- **Users:** Set up user's with passwords and PINs and define what they are able to access or change: IQView, Site, and Lan menu icons in the toolbar, full navigator tree displayed or certain Lans and outstations hidden, display and directories, time, timezones, alarms in IQ/IQL controllers, modules (sensors, switches, knobs, digital inputs, drivers), add/remove items from navigator tree, enter PIN, acknowledge or delete alarms, set graph display options. By default the IQView has no users set up (i.e. no security); setting up a user will also automatically set up an Admin user with full access rights.
- **Alarms:** The types of alarms that are added to the received alarm display. Unselected received alarms are rejected. Types are critical, general, module, network, dialler, or access. The alarm actions can also be specified (sound internal buzzer, flash screen, flash LED, energise relay output).
- **Language:** This enables the text language, date, time and decimal separator formats to be set to other languages including English (UK), English (US), German, French, Spanish, Swedish, Danish, Norwegian, Finnish, Greek, Simplified Chinese, Romanian, and Russian.

For full detail of configuring IQView see the 'Engineering IQView' section of this manual.

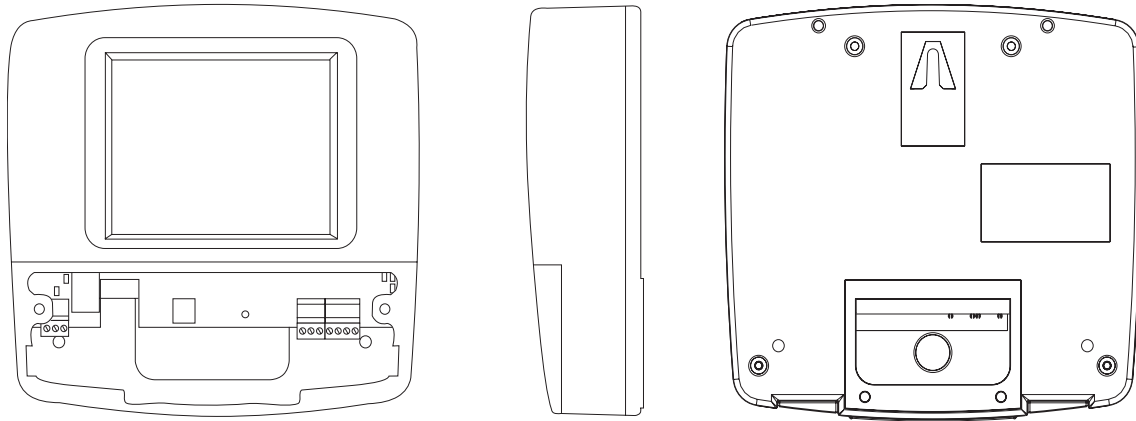
2.3 Hardware

This section provides a description of the IQView hardware for detailed specifications see the IQView Data Sheet (TA200710).

There are two mechanical versions of IQView: the surface mount unit, and the rear panel mount unit.

2.3.1 Surface Mounting Version

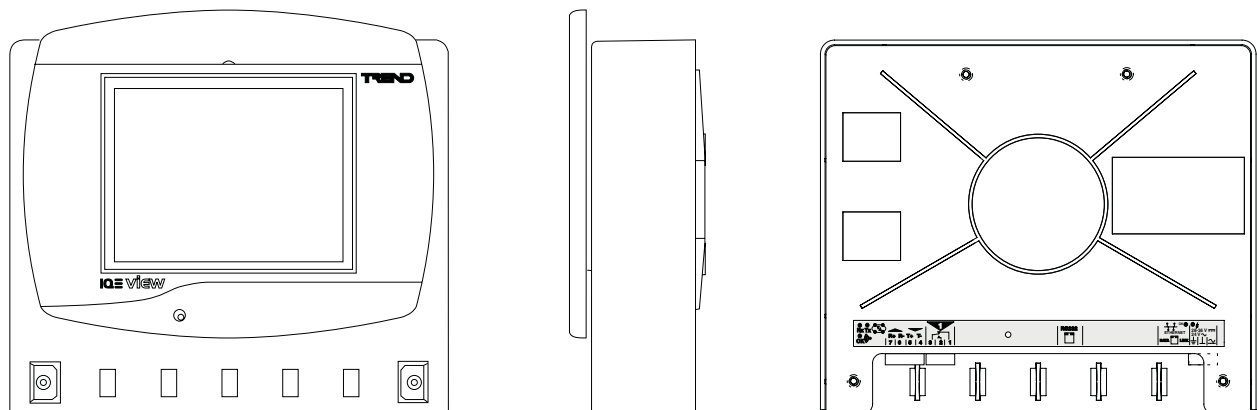
The surface mount version (/SM) shown below has a snap on cover which can be levered off to reveal the labelled terminal cover. This can be unscrewed to expose the terminals, LEDs, and pushbutton.



The Power/Alarm LED (blue) can be seen with the covers in place. There are two M20 (or 3/4") conduit holes fitted with plastic bungs in the base of the box for cable entry and a rear rectangular aperture for rear cable entry surrounded by a neoprene seal. The unit is either three point mounting (e.g. for fixing to a wall) or 4 point mounting (e.g. for fixing on a panel). The 3 hole mounting method uses M4, 5, 6 or No. 10 or 12 screws; a ramped keyhole slot in the top back centre of the unit slips over a screw head, and as the unit is lowered the unit clamps onto the wall creating a seal around the rear aperture; the two lower right and left fixing holes can be used to spot their fixing positions. The 4 hole mounting method uses 4 off M4 x 16 mm screws; this gives a maximum panel thickness of 10 mm (0.39"). The template provided is only for use for 4 hole fixing.

2.3.2 Rear Panel Mounting Version

The rear panel mount version (/RPM) shown below is mounted behind a rectangular aperture in the panel using the 4 countersunk cross headed screws (M4 x 12 mm) provided, and a plastic infill is clipped over the front bezel to hide the screw heads.



The maximum panel width is 6 mm (0.24"). A neoprene seal is fitted around the screen to make the screen watertight from the panel front. The cables enter the IQView through the bottom of the unit, and there are 5 saddle piercings in the unit to facilitate fixing the cables with cable ties. A fixing template is provided.

An adapter plate (IQVIEW/NDP ADAPTER PLATE) is available as an accessory to facilitate the replacement of a panel mounted NDP with an IQView.../RPM. It has a finish to match the standard ENCLS cabinets, but can be sprayed by the installer to match the panel if required. Fixing the adapter plate to the panel requires a square cutout and 4 holes. The adapter plate fixes to the panel by 4 studs, and the 4 crinkle washers and nuts provided. The plate has a neoprene gasket which maintains the IP54 rating.

2.3.3 Power

The unit requires 24 Vac, 50/60 Hz, or 28 to 36 Vdc. The maximum consumption is 24 VA. This power level cannot be provided from an IQ controller's auxiliary supply output, so a separate supply is required.

A 230 V/24 Vac, 24 VA, transformer is available (ACC/24VAC). This is a sealed unit with two mounting lugs; it has an isolated 24 Vac output and an additional earth lead connected through from the input for earthing the IQView.

A general purpose 24 Vac transformer may be used providing it is rated at 24VA or greater. *Note that some transformers (as in typical plant room installations) are earthed on one side of the secondary; therefore care must be taken to ensure that the earthed side of the transformer secondary is connected to the middle terminal of the IQView's power connector.*

The PSR/230/24-2.5 DIN rail mounting DC power supply may be used, but its output voltage level must be adjusted for maximum volts (28 Vdc).

2.3.4 Fusing

The input supply is protected by a 6.3 A fast-blow fuse; this protects the IQView board from drawing excessive current from the supply. If it blows the unit should be returned to the supplier for repair.

2.3.5 Current Loop Network (not IQView Mono)

The network terminals facilitate connection of 2 wire cables. The standard IQ system current loop features are included (TX, RX, and network OK indicators, bypass relay, and network alarm generation).

2.3.6 Relay Output

The IQView has a single changeover relay output. If the relay is enabled, it energises when an alarm occurs. It is disabled by default, but can be enabled using the software. Acknowledging the alarm will de-energise the relay. The relay can be used to drive an external alarm annunciator (visual or audible).

2.3.7 Indicators

IQView has following indicators:

Indicator	Colour	Description
Power/Alarm	Blue	Normally ON to indicate that the power supply is connected. It will flash if there is an alarm present. If OFF it indicates a supply failure.
Ethernet OK	Green	ON if the IQView has successfully communicated with at least on IQ system device on Ethernet (e.g IQ3, EINC). ON if network on Ethernet has been constructed. OFF if IQView is alone.
Ethernet LINK	Green	ON if the IQView has a good Ethernet connection. If OFF it indicates a faulty Ethernet connection.
Ethernet DATA	Yellow	Flashes when a package of data is being received from the Ethernet.
TX	Yellow	ON if current is flowing from network transmitter.
RX	Yellow	ON if current is entering the network receiver.
OK	Yellow	ON if network is operating.

The Power/Alarm LED is visible through the front of the surface mount unit only. On the surface mount unit all other LEDs are visible after removing the covers; on the rear panel mount unit the LEDs can be checked using a mirror.

2.3.8 Sounder

By default the audible sounder is enabled so that it sounds when the touch screen is tapped, or when an alarm occurs. It can be disabled using the application software. Acknowledging the alarm will switch off the audible alarm.

2.3.9 Battery

The IQView does not require a battery. User configuration data is stored in non-volatile memory (Flash). A supercap is used to maintain the real time clock (time and date); in the event of power failure this will support the clock for a minimum of 24 hours (at 20 °C, 68 °F). Note that the supercap needs about 2 minutes to reach full charge after power is applied. The alarm list and any other data (e.g. site navigator tree) is lost on power failure.

2.3.10 Connectors

Two part connectors are used throughout to facilitate installation. The Ethernet and RS232 ports use RJ45 and RJ11 sockets respectively. The supply, relay output, and network connections use two part screw terminals.

2.3.11 Display

The IQView Mono version has a black and white display, and the IQView (standard) version has a colour (256 colours) display. Both displays are LCD 320 x 240 pixels (1/4 VGA) STN with touch screen. The backlight is electroluminescent (CCFL) with autodim. The autodim function enables the screen brightness to be dropped to 1/2 brightness after a time defined in the application. The screen has a digital contrast facility enabling it to be set by a slider function within the software.

2.3.12 SD Card Socket

The IQView has an SD card socket which will take an SD/MMC card (Secure digital/Multimedia card). This can be used to backup and restore the configuration settings and user configuration data. The data can be written to the card, and the card may be removed and stored in a safe location as a backup or to transport the configuration from one IQView to another.

The SD card is also used to upgrade the firmware. The upgrade from V1.0 to V1.1 is supplied on an SD card. Future firmware upgrades will be supplied as a file along with a utility to write it onto an SD card from a PC; an SD Card Writer will be required for this operation. The programmed SD card should be plugged into the IQView. The reset button should be pressed and held down, and soft reset should be selected from the screen. The firmware will then be upgraded (see IQView Upgrade information sheet, TG200758).

2.4 Compatibility

The IQView will show any Lan nodes in the **Show Network Devices Display**, and identify those that respond to W comms. This will effectively enable all nodes to be seen with the exception of TMN/MNC/ANC type nodes located on the internetwork. Autodialled Lans cannot be accessed.

Controllers

It is compatible with IQ1xx controllers version 4 and above and all IQ2xx, IQ3, IQL controllers. IQ3 web pages, retransmitted alarms, and FNC/FC controllers are not supported.

Networks

IQVIEW MONO/.. only supports an RS232 connection to a local controller or to the local network via controllers with a virtual CNC or by separate CNC.

IQVIEW/.. supports:

- Connection via an RS232 connection to a local controller or to the local network via controllers with a local supervisor port or by separate CNC.
- Connection over Ethernet (10 BASE-T) using either its own integral CNC, or a virtual CNC in another device (IQ3 controller, or EINC).
- Connection via current loop Lan (requires network + protocol).

When connecting using Ethernet use of a DHCP and WINS server is supported.

NDP replacement

The IQView can be used to replace an NDP. It will not physically replace a unit fitted in the cover of an IQ250, IQ251, or IQ241/242; it would have to be fitted alongside. Blanking plate accessories are available to blank the controller cover after removal of the NDP.

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3 THE IQVIEW DISPLAYS

IQView uses the following displays to present information from controllers in an easy to understand way:

Navigator Display

- The **Navigator Display** provides a way of selecting the controller from which information that is to be displayed comes from.

Received Alarms Display

- The **Received Alarms Display** displays a list of all the alarms that have been received by the IQView. It also allows the alarms to be acknowledged, or deleted.

Modules Display

- The **Modules Display** displays a list of Sensors, Knobs, Digital inputs, Drivers, Switches, Display and Directory modules, and timezones in a controller.

Current Alarms Display

- The **Current Alarms Display**, shown below, shows all the items in alarm.

Alarm Log Display

- The **Alarm Log Display** is only available for IQ3 version 1.2 or greater, and pre IQ3 controllers. It displays the controller's alarm log (alarm history buffer).

Graph Display

- The **Graph Display** displays the requested graph.

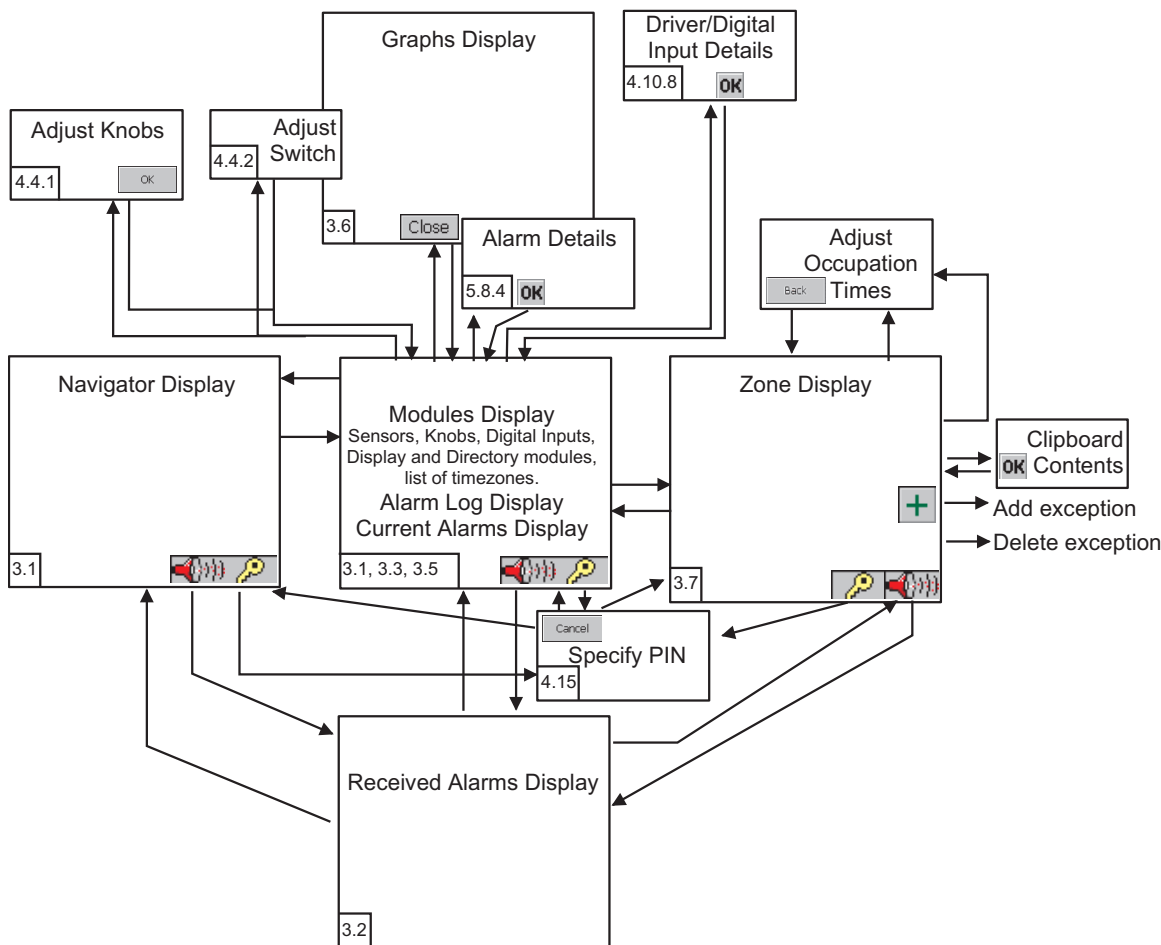
Zone Display

- The **Zone Display** displays the occupation times of a timezone, and enables them to be adjusted.

Log In Display

- The **Log In Display** is displayed if users have been enabled, and no one is currently logged into IQView. It enables users to log in.









The diagram below provides a map of the different displays and how it is possible to move between them.



3 THE IQVIEW DISPLAYS (Continued)

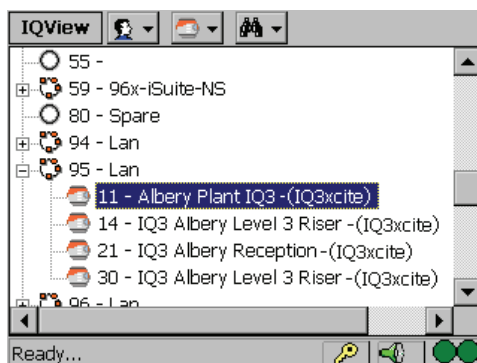
Status Bar

The **Status Bar** is located at the bottom of the most of the IQView displays. When IQView is busy and the hourglass is in the centre of the screen it provides information about what IQView is currently doing. When a module is selected its will display the module's label in full. This is useful if a label is too long to fit on the display. The **Status Bar** also contains three icons:

Icon	Description
	Indicates the status of the IQView's network connection.  Communications OK  Communications now working correctly. Tapping this icon will cause IQView to check the connection if it is OK  is displayed for about 1s.
	Enables the PIN that is sent to the controller to be specified. This may not be visible to all users.
	Indicates whether there are alarms in the list.  No unacknowledged alarms in the list.  Alarms in the list (flashing). Tapping this icon will display the Received Alarms Display .

3.1 The Navigator Display


The **Navigator Display**, shown below, displays the site to which IQView is connected in a tree structure. It provides a way of selecting the controller from which information that is to be displayed comes from.



The **Navigator Display** is divided into two different areas:

System View
Toolbar

System View

The **System View** displays the Lans and controllers on the site in a tree structure. The house icon () the top of the tree represents the site and has the site name adjacent to it. The vertical line below the house has the Lans branching from it with the local Lan at the top. The tree displays the Lan number followed by the label of each Lan if it has one. For Lans without a label the word **Lan** is displayed after the Lan number. The Lans act like directories in Windows Explorer. Lans containing IQ/IQL controllers will have an adjacent plus sign. Tapping the plus sign expands the Lan and shows all the controllers with specific icons to represent the controller types. Controllers are indicated by the network address, controller type, and the label. If the controller is in help, the word **Help** appears instead of the label. Icons next to the Lans and devices indicate the Lan status, and device type.

3.1 The Navigator Display (Continued)


<i>Icon</i>	<i>Description</i>
	The Lan is broken.
	Empty Lan (there are no controllers on the Lan).
	Lan
	The site to which IQView is connected.
	IQ1 Series Controller.
	IQ2 Series Controller.
	IQ3 Series Controller.
	IQL Series Controller.
	Unknown device, or IQ not responding.

Note that by default IQView only displays the controllers on the network, other devices are not shown.


The tree structure can be navigated by tapping + to expand a particular branch, or - to collapse a branch and a controller selected by tapping it. Menu commands enable the tree to be fully expanded or collapsed, and for a particular controller to be located. If necessary Lans, and devices, can be removed from the site, preventing them being viewed.

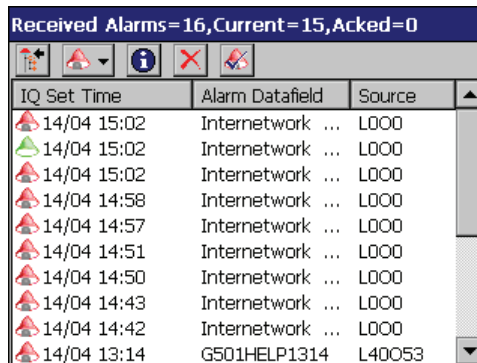
Toolbar

The **Toolbar** contains icons that provide access to IQView's settings, the user menu, a menu dependent on the part of the tree currently selected or the find menu.

<i>Button</i>	<i>Description</i>
	Displays the IQView menu that enables the IQView to be engineered, use the SD card to (import/export user data), restart IQView, and display information about IQView.
	This is only visible if IQView's security is enabled, it displays the users menu that enables you to log on, log off, or change your password.
	Displays the tree menu that allows you to find a particular controller, expand/collapse all branches of the tree, or add/remove controllers and find the system timemaster.
	Appears when a controller is selected. The buttons appearance depends on the type of controller selected. It displays the IQ menu that provides access to modules values, IQ alarms, and timezones in the selected controller.
	Appears when a Lan is selected. The buttons appearance depends on the status of the Lan. It displays the Lan menu that enables the Lan to be relearned, or for a list of all devices on the Lan to be displayed.
	Appears when the site icon () is selected. It displays the site menu which enables the entire site to be learnt, or for the connection to be reinitialised.

3.2 The Received Alarms Display

The **Received Alarms Display**, shown below, can be accessed by  tapping. It displays a list of the 100 most recent alarms received from the system by the IQView. When this display is visible, the alarm actions specified will be stopped. The actions will restart again when the display is closed unless the alarms have been acknowledged by the user. If IQView is turned off the information in the list will be lost.








The **Received Alarms Display** is divided into three different areas:

- Alarm Area**
- Title Bar**
- Toolbar**

Alarm Area

The **Alarm Area** contains all the alarms it provides the following information for each alarm:

Column	Description
Icon	Icons indicate whether an alarm has been actioned by a user. Colours are used to indicate whether the alarm is an occurred alarm or a cleared alarm. <ul style="list-style-type: none">  Occurred alarm that has not been acknowledged.  Occurred alarm that has been acknowledged.  Cleared alarm that has not been acknowledged.  Cleared alarm that has been acknowledged.
IQ Set Time	The time the alarm was sent by the controller.
Source	The device that sent the alarm in the format: L<xxx>O<yyy> Where <xxx> specifies the Lan number of the controller. <yyy> specifies the network address of the controller.
Alarm Data Field	The datafield of the communications frame of the alarm. For a user-friendly view of this information tap  .

When the display is first accessed, the most recent alarm is at the top of the list, and new alarms will be inserted at the top of the list. However if required you can sort by any column by tapping the column header. Sorting on the **Alarm Data Field** column will sort by the 4-letter alarm code (MINT, SLOW etc.).

If a cleared alarm is received for an occurred alarm that is in the list, the occurred alarm is removed from the list, leaving only the cleared alarm.



Title Bar

The **Title Bar** indicates the total number of alarms, the number of current alarm, and the number of acknowledged alarms.

3.2 The Received Alarms Display (Continued)

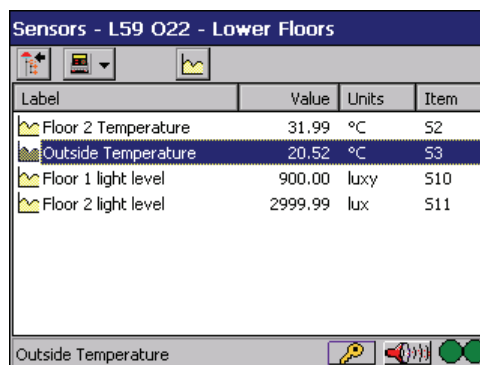
Toolbar

The **Toolbar** contains a number of icons that enable you to perform actions on the selected alarm, and to return the previous display.

Icon	Description
	Acknowledges the selected alarm. The appearance of the button depends on whether the alarm is an occurred alarm () , or a cleared () alarm.
	Deletes the selected alarm.
	Displays more information about the selected alarm.
	The appearance of the button depends on the previous display. It returns to the previous display.
	Displays the alarm menu that enables alarms to be acknowledged, and deleted.

3.3 The Modules Display

The **Modules Display**, shown below, displays a list of sensors, knobs, digital inputs, drivers, switches, display and directory modules, and timezones in a controller.




If timezones are being displayed it also shows whether the controller is a timemaster, the controller time, and the IQView time and enables the controller time to be synchronised from the IQView time.

If display and directory modules are being displayed the controller's display and directory modules are displayed enabling access to the controller's sensors, digital inputs, knobs, switches, drivers, and time zones to be displayed on a number of pages in a hierarchical manner.

The **Modules Display** varies slightly depending on what information is being displayed but has six main areas:

- Directory List** (display and directory modules only)
- List View**
- Status Bar**
- Time Details** (timezones only)
- Title Bar**
- Toolbar**

Directory List (Display and Directory modules only)











The **Directory List** appears on the left of the display and shows the directory modules in a hierarchical tree structure. When an item is selected in the directory list, the associated display modules are shown in the list view on the right, and the directory list hidden. If required the directory list can be hidden by tapping .

The IQView Displays

3.3 The Modules Display (Continued)

List View

The **List View** displays the information about the modules. It provides the following information for each module:

Column	Description
Icon	 Indicates a knob or switch that can be adjusted.  Indicates a knob or switch that cannot be adjusted. It will not be possible to adjust a knob or switch if the current PIN does not match one in the controller, or has a PIN Level lower than the PIN level required to make the adjustment.  Indicates a sensor can be graphed. No icon is displayed for sensors if there is no logged data.  For Sensors, Digital Inputs, and Drivers indicates that the module is in an alarm condition. <i>Note that if the  is displayed it is still possible to display a graph of a sensor and make adjustments.</i>  For Drivers, indicates the driver has been disabled.  For Drivers, indicates the driver has been overridden by a software tool or supervisor.  For Drivers, indicates the driver has been forced ON using a HOA switch.  For Drivers, indicates the driver has been forced OFF using a HOA switch.  Indicates a timezone.
Label	The module's label. The selected module label will also be displayed in the status bar.
Units	This column is only displayed for sensors and knobs it displays the units of the module's value.
Item	The module identifier and module number (e.g. S1).
Value/Status	The module's value or the current occupation status of a timezone.

The list can be sorted by any column by tapping the column header.

Time Details (Timezones only)

The **Time Details** area indicates whether the controller is the timemaster, and displays the controller's time and IQView's time. If the user has a PIN of level 50 or greater a button is displayed that enables the controller's time to be synchronised with the IQView's time.

Title Bar






The **Title Bar** indicates the type of information that is being displayed (Sensors, Knobs etc.) the controller address in the format:

L<xxx>O<yyy>




Where <xxx> specifies the Lan number of the controller. <yyy> specifies the network address of the controller, and the label of the item.

Toolbar


The **Toolbar** enables navigation to other displays, and different actions to be performed on the selected module. The actions that can be performed on the selected module depends on the module type, action not appropriate for the selected module will be hidden.

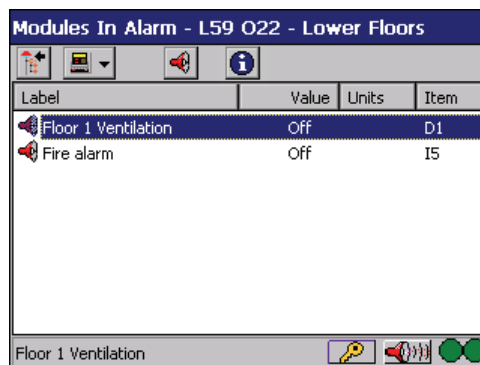
Button	Function
	This is always visible, it returns to the Navigator Display .
	Graphs the value of the selected sensor. See the 'Display a Graph' section of this manual. This option will not be available if there is no logged data for the sensor, or the data has not yet been retrieved.
	Enables the value for the selected knob or switch to be adjusted. If the current PIN does not match one in the controller, or has a PIN level lower than the PIN level required to make the adjustment the icon is hidden. See the 'Adjustments' section of this manual.
	The buttons appearance depends on the type of controller selected. It displays the IQ menu that provides access to module values, IQ alarms, and timezones in the selected controller.
	Displays details of the module's alarm. See the 'Display IQ Alarm Details' section of this manual.

3.3 The Modules Display (Continued)

Button	Function
	Shows/Hides the directory module list when browsing directories.
	Displays details about the timezones. See the 'Display Occupation Times' section fo this manual.
	Displays details about the selected driver/digital input. See the 'Display Driver/Digital Input Details' section of this manual.

3.4 The Current Alarms Display

The **Current Alarms Display**, shown below, shows all the items in alarm for a selected controller. This display is similar to other displays except that all the items are in alarm, therefore all the item lines have the  icon as a prefix. The display contains a snapshot of the alarms at the time the display is selected, it is not updated.




The display has three main areas:

- List View**
- Title Bar**
- Toolbar**

List View

The **List View** displays the information about the modules. It provides the following information for each module:

Column	Description
Icon	 Indicates an alarm.
Label	The label of the module in alarm. The label will also be displayed in the status bar.
Units	This colum is only displayed for sensors, it displays the units of the module's value.
Item	The module identifier and module number (e.g. S1).
Value	The modules's value.

The list can be sorted by any column by tapping the column header.

When current alarms are displayed the display contains all the sensors, drivers, and digital inputs that are currently in alarm. The information displayed and available functions e.g. adjustments are the same as when they are displayed in the individual module displays.

Title Bar

The **Title Bar** indicates that the display contains modules currently in alarm, the controller address in the format:






L<xxx>O<yyy>

Where <xxx> specifies the Lan number of the controller. <yyy> specifies the network address of the controller, and the controller's label.

3.4 The Current Alarms Display (Continued)

Toolbar

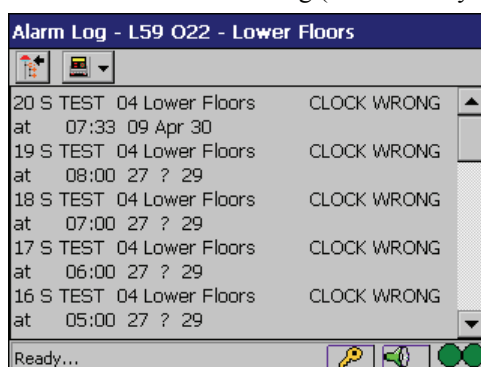
The **Toolbar** enables navigation to other displays, and different actions to be performed on the selected module. The actions that can be performed on the selected module depends on the module type, actions not appropriate for the selected module will be hidden.

Button	Function
	This is always visible, it returns to the Navigator Display
	Graphs the value of the selected sensor. See the 'Display a Graph' section of this manual. This option will not be available if there is no logged data for the sensor, or the data has not yet be retrieved.
	The buttons appearance depends on the type of controller selected. It displays the IQ menu that provides access to module values, IQ alarms, and timezones in the selected controller.
	Displays details of the module's alarm. See the 'Display IQ Alarm Details' section of this manual.
	Displays details about the selected driver/digital input. See the 'Display Driver/Digital Input Details' section of this manual.

Other buttons on the **Toolbar** are not required, and therefore always disabled.

3.5 The Alarm Log Display

The **Alarm Log Display**, shown below, only available for pre IQ3 controllers, or IQ3 controllers with version 1.2 firmware of greater. It gives a view of the controller's alarm log (alarm history buffer).



The display has three main areas:

- List**
- Title Bar**
- Toolbar**

List

The **List** displays the controller's alarm log. This shows the full alarm message for each alarm that has been logged. In the format shown below:

<Log Number> <Item> <Item Label> <Alarm> <Time> <Date>

Where <Log Number> is the number of the alarm in the alarm log. <Item> is the module in alarm. <Item Label> is the label of the module in alarm. <Alarm> specifies the type of alarm. <Time> is the time the alarm occurred. <Date> is the date the alarm occurred.

E.g.

12 DIGIN 36 VT Pumpset Fault DIGIN ON at 04:19 28 Aug 03

Title Bar

The **Title Bar** indicates that the display contains the alarm log, the controller address in the format:



L<xxx>O<yyy>

Where <xxx> specifies the Lan number of the controller. <yyy> specifies the network address of the controller, and the controller's label.

3.5 The Alarm Log Display (Continued)

Toolbar

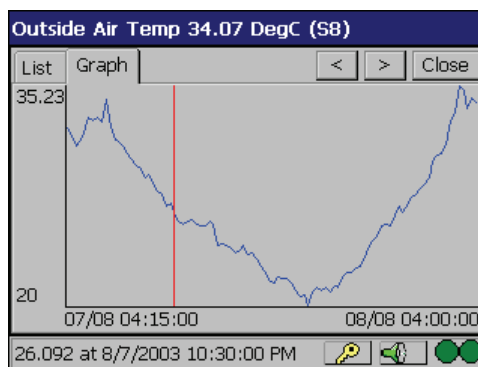
The **Toolbar** enables navigation to other displays

Button	Function
	This is always visible, it returns to the Navigator Display
	The buttons appearance depends on the type of controller selected. It displays the IQ menu that provides access to module values, IQ alarms, and timezones in the selected controller.

Other buttons on the **Toolbar** are not required, and therefore always disabled.

3.6 The Graph Display

The **Graph Display**, shown below, displays the graph a specified sensor. It enables you to move around the graph to view a particular point, and to display the graph's data as a list.



The **Graph Display** is divided into three different areas:

- Graph Area**
- List Area**
- Title Bar**

Graph Area

The **Graph Area** contains the graph or the graph data if that is being viewed. It is possible to swap between the graph, and graph data by tapping List, or Graph accordingly. Tapping a point on the screen will display a vertical line at that point on the graph, and the data for that point is displayed in the status bar. You can move the vertical line to the next/previous value by tapping <, or >.

List Area

The **List Area** contains the graph data. It is possible to swap between the graph, and graph data by tapping List, or Graph accordingly.

Title Bar

The **Title Bar** displays the sensor label and its value.

3.7 The Zone Display

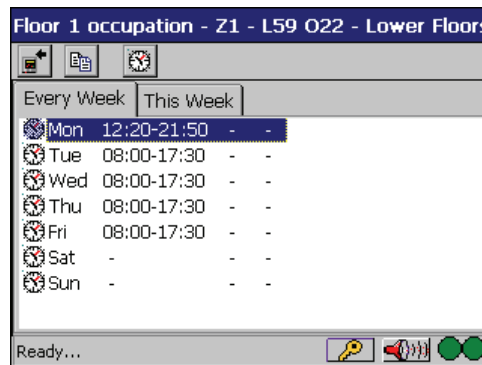
The **Zone Display**, shown below, displays the occupation times of a particular timezone, and enables them to be adjusted.

The display depends on the type of controller but has four main areas:



IQ3 Controllers	Pre IQ3 Controllers
Every tab	Every tab
Exceptions tab	This Week tab
Title Bar	Title Bar
Toolbar	Toolbar

Every Tab

The **Every** tab, shown below, is available for both for IQ3 controllers and pre IQ3 controllers. It displays the normal occupation times for the week (normal occupation times).

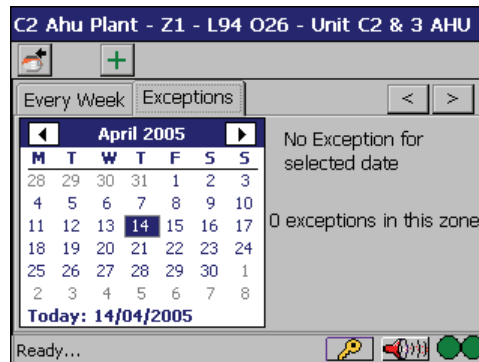


It contains the following information.

Column	Description
Icon	Indicates whether the times can be adjusted.  Indicates that the times can be adjusted.  Indicates that the times cannot be adjusted. A timezone's times can be adjusted if the PIN level of the current PIN is equal to or higher than the PIN level required to make the adjustment.
Day	The day of the week (starting with today).
Occupation Times	The start and stop times for each of the timeline's periods of occupancy.

Exceptions Tab

The **Exceptions** tab shown below is only available for IQ3 controllers. It displays days that have been set to work times different to the normal occupation times.

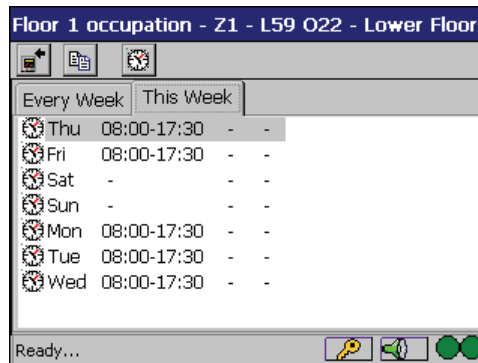


The calendar on the left of the display indicates the days for which exceptions have been setup with a black square. When a day with an exception is selected details about the exception are displayed on the right, and the exception's times are displayed in the status bar.



3.7 The Zone Display (Continued)

This Week Tab

The **This Week** tab shown below is only available for pre IQ3 controllers. It displays the times that are being used for today and the next 6 days (current week).



It contains the following information.

<i>Column</i>	<i>Description</i>
Icon	Indicates whether the times can be adjusted.  Indicates that the times can be adjusted.  Indicates that the times cannot be adjusted. A timezone's times can be adjusted if the PIN level of the current PIN is equal to or higher than the PIN level required to make the adjustment.
Day	The day of the week (starting with today).
Occupation Times	The start and stop times for each of the timeline's periods of occupancy.

Title Bar







The **Title Bar** contains the label of the timezone, the label of the controller, and the address of the controller in the format:

L<xxx>O<yyy>

Where <xxx> specifies the Lan number of the controller. <yyy> specifies the network address of the controller.

Toolbar

The **Toolbar** enables navigation to other displays, and different actions to be performed on the selected times/exception. Actions not appropriate are not visible.

<i>Button</i>	<i>Function</i>
	The appearance of the button depends on the previous display. It returns to the previous display.
	Copies the times of the selected day/exception.
	Pastes times that have been previously copied to the selected day/exception.
	Enables the times to be adjusted.
	Adds an exception to the day selected in the calendar (IQ3 controllers only).
	Deletes the exception from the selected day (IQ3 controllers only).

3.8 The Log In Display

The **Log In Display** shown below is displayed if users have been enabled, and no one is currently logged into IQView.



The screenshot shows a login interface with the following elements:

- A "User Name:" label followed by a dropdown menu containing the text "Guest".
- A "Password:" label followed by an empty text input field.
- A "Login" button.
- The "IQVIEW" logo, where "IQ" is in orange and "VIEW" is in blue.
- The current date and time: "9/4/2003 9:32:48 AM".

In addition to allowing users to log in it displays the current date and time.

4 USING IQVIEW

This section describes how to use IQView. It describes all the necessary tasks required to operate IQView, and make adjustments to the system once it has been correctly engineered.

A summary of using IQView is provided in the following section:

Basic Use

For a more detailed description of the different tasks see the following sections:


- Acknowledge Alarms
- Adjust Occupation Times
- Adjust Values
- Caring for the Screen
- Change Your Password
- Display a Graph
- Display Alarms
- Display All Devices on a Lan
- Display Module Lists
- Display Occupation Times
- Log In
- Log Off
- Specify the PIN
- Synchronise the Controller Time
- Navigate to a Controller
- Use the Keyboard


4.1 Basic Use


Access to IQView is by touching the screen. Care should be taken not to damage the unit. It is recommended that you touch the screen with your finger, or fingernail. Do not touch the screen with sharp objects as this may damage the screen.





A map of the different display is provided in the 'The IQView Displays' section of this manual.

To view controller information:



- 1 If  is enabled, or the **Log in Display** is visible, you must log in. If you do not have a username and password for IQView you can log in as **Guest**. This user does not require a password.
 - In the **User Name** box click your username. The keyboard is displayed.
 - Enter your password by tapping the letters on the keyboard.
 - Tap **Login**. The **Navigator Display** will become visible.

If  is not enabled and you intend to make changes you may need to specify a PIN.








- Tap .
 - Tap **Use This PIN**.
 - Enter the new PIN by tapping numbers tapping the numbers.
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller. For more details of locating controllers see the 'Navigate to a Controller' section of this manual.
 - 3 Tap the required controller to highlight it, a menu is displayed.

Note that if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.


4.1 Basic Use (Continued)

- 4 Select the required information.
 - To view display and directory modules tap **Directories**.
 - To view other module types tap **Modules**, and then tap the required module type (sensor, knob etc.)
 - To view timezones tap **Timezones**.
 - To view IQ alarms tap **IQ Alarms** and then tap either **Current** or **Alarm Log** depending on what alarms are required.
- 5 Once the required modules are displayed you can use the scroll bar on the right to scroll up/down the list of modules tap , or .



Tapping the icons along the top of the display (**Toolbar**) enables different actions to be performed on the selected module.

<i>Button</i>	<i>Function</i>
	Graphs the value of the selected sensor. See the 'Display a Graph' section of this manual. This option will not be available if there is no logged data for the sensor, or the data has not yet be retrieved.
	Enables the value of the selected knob or switch to be adjusted. See the 'Adjustments' section of this manual.
	Appears when a controller is selected. The buttons appearance depends on the type of controller selected. It displays the IQ menu that provides access to module values, IQ alarms, and timezones in the selected controller.
	Displays details of the module's alarm. See the 'Display IQ Alarm Details' section of this manual.
	Shows/Hides the directory module list when browsing directories.
	Displays details about the selected driver/digital input. See the 'Display Driver/Digital Input Details' section of this manual.
	Displays details about the timezones. See the 'Display Occumpation Times' section fo this manual.





Tapping the top of a column will sort the data by that column.

- 6 To return to the **Navigator Display** tap .
- 7 Log off when the use of IQView is finished.

To view/acknowledge alarms:



- 1 If  is enabled you must log in. If you do not have a username and password for IQView you can log in as **Guest**. This user does not require a password.
 - In the **User Name** box tap your username. The keyboard is displayed.
 - Enter your password by tapping the letters on the keyboard.
 - Tap **Login**. The **Navigator Display** will become visible.
- 2 Tap  on the bottom of the screen to display the **Received Alarms Display**. This will stop the screen flashing, or any other alarm action until the display is closed.

Icons next to each alarm indicate their status.







<i>Icon</i>	<i>Description</i>	<i>Icon</i>	<i>Description</i>
	Red bell indicates a set alarm that has not been acknowledged.		Green bell indicates a cleared alarm that has not been acknowledged.
	Red bell with tick indicates a set alarm that has been acknowledged.		Green bell with tick indicates a cleared alarm that has been acknowledged.


For details of the **Received Alarms Display** see the 'The Received Alarms Display' section of this manual.

4.1 Basic Use (Continued)

- 3 Once the alarms are displayed you can use the scroll bar on the right to scroll up/down the list of modules, tap , or .

Tapping the icons along the top of the display (**Toolbar**) enables different actions to be performed on the selected alarm.


Button	Function
	Displays more information about the selected alarm.
 	Acknowledges the selected alarm. See the 'Acknowledge Alarms' section of this manual. The appearance of the button depends of whether the alarm is an occurred alarm () , or a cleared () alarm.
	Deletes the selected alarm. See the 'Delete Alarms' section of this manual.

- 4 To return to the **Navigator Display** tap .
- 5 Log off when the use of IQView is finished.






4.2 Acknowledge Alarms


Alarms that have been sent to IQView must be acknowledged to indicate that the alarm has been seen, and to stop the specified alarm actions.

To acknowledge alarms:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to acknowledge alarms.

- 2 Tap  to display the **Alarms Display**.
- 3 Tap the alarm that is to be actioned.
- 4 Tap  or  in the **Toolbar**. The appearance of the button depends on whether the alarm is an occurred alarm () , or a cleared () alarm.

To action all alarms tap  and from the displayed menu tap **Acknowledge All**.

- 5 Tap the top left button (, , , , , or ) to return to the original display.

4.3 Adjust Occupation Times

IQView allows you to view the occupation times to ensure that the correct times are being worked so that unnecessary energy is not being used controlling unoccupied area.



It also enables you to make changes to the normal occupation times for controllers controlling an area for which the working times have permanently changed.

You can set up days that are to work different times to the normal occupation times (e.g. a bank holiday). For IQ3 controllers this is done by adding an exception. For pre IQ3 controllers this is done by adding calendar days, it is also possible to edit the times that are being used for today and the next 6 days by changing the current week.

4.3.1 Change Normal Occupation Times

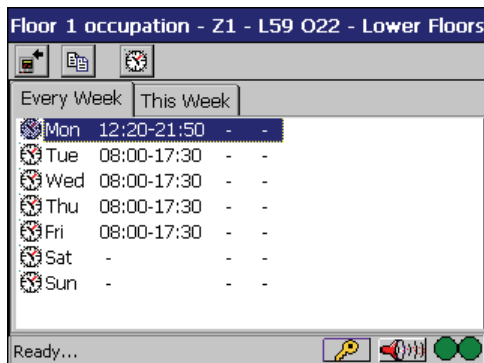
The normal occupation times should be changed when the occupation times for the area the controller is controlling have changed permanently.

To change the normal operating times:




- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone whose normal occupation times are to be changed as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap the timezone whose occupation times are to be changed.
- 4 Tap  in the **Toolbar**.


4.3.1 Change Normal Occupation Times (Continued)

5 Tap **Every Week**. A screen similar to the one shown below is displayed.

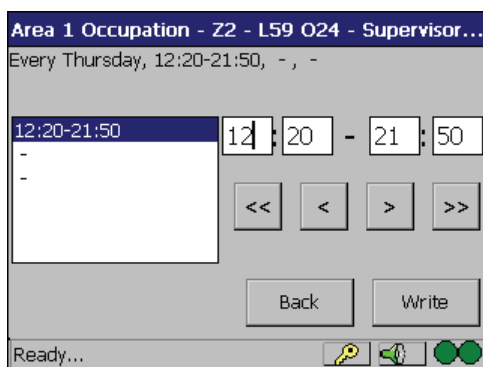


6 Tap the day for which the occupation times are to be changed.





Days for which the times can be adjusted a  next to them in the list. If the day has a  icon next to it in the list this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.2 firmware the  will be displayed against all items even if the PIN is incorrect.

7 Tap . The **Time Adjust** dialogue box is displayed.



8 Tap the period whose occupation times are to be changed, they will appear in the boxes on the right.

9 Tap in the required box and use  /  to increment/decrement the value by 1 or  /  to increment/decrement the value by 2 hours or 5 minutes depending on the selected box.

For IQ3 controllers additional periods can be added by tapping **ADD**. Unwanted periods can be deleted by tapping them and then tapping **DEL**.



Caution: When adding or deleting periods the change will take place immediately (before WRITE is selected)

10 Once the times are as required tap **WRITE**.

4.3.2 Add an Exception

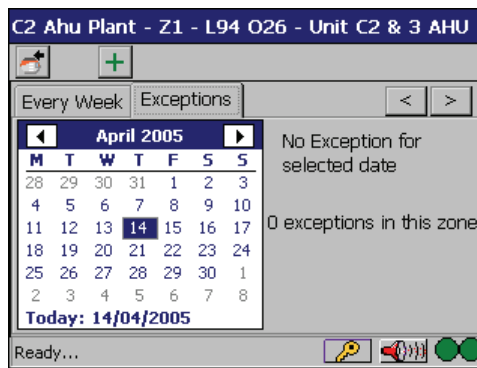
For IQ3 controllers days can be set to be occupied at times different to the normal occupation times, e.g. for bank holidays by adding an exception for that day.

To add an exception:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone to which the exception is to be added as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap the timezone whose occupation times are to be changed.
- 4 Tap  in the **Toolbar**.

4.3.2 Add an Exception (Continued)

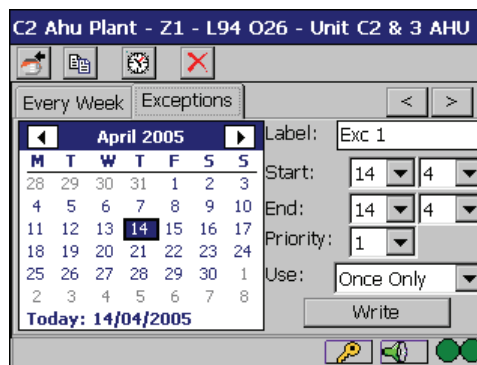
- 5 Tap the **Exceptions** tab. A screen similar to the one shown below is displayed.



- 6 Tap the day to which the exception is to apply.

If the required day is not visible tap or to select the required month, or tap the month to display a list of the next 12 months.

- 7 Tap . The display will change as shown below.



If the is not visible this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on providing the icon is visible.

- 8 Tap in the **Label** box. The keyboard is displayed.

- 9 Enter the label for the exception by tapping the letters on the keyboard.

- 10 Tap .

- 11 Specify first day to which the exception is to apply by tapping in the **Start Date** box and tapping the required date, and then tapping in the **Start Month** box and tapping the required month.

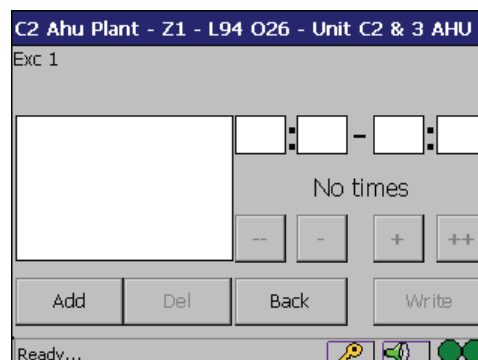
- 12 Specify the last day to which the exception is to apply by tapping in the **Stop Date** box and tapping the required date, and then tapping in the **Stop Month** box and tapping the required monthly.

- 13 In the **Priority** box tap the required priority used to determine which exception is used if there is an overlap.

- 14 Specify whether the exception is to occur once only, or to be repeated every year by tapping the required option in the **Use** box.





- 15 Tap **Write**.

- 16 Tap . The **Time Adjust** dialogue box is displayed which enables the times for the exception to be specified.



4.3.2 Add an Exception (Continued)

17 Tap **ADD** to add an occupancy period.

18 Tap in the required box and use   to increment/decrement the value by 1 or   to increment/decrement the value by 2 hours or 5 minutes depending on the selected box.

19 Repeat steps (17) and (18) to add any other periods of occupancy.

Unwanted periods can be deleted by tapping them and then tapping DEL.


Caution: When adding or deleting periods the change will take place immediately (before WRITE is selected).

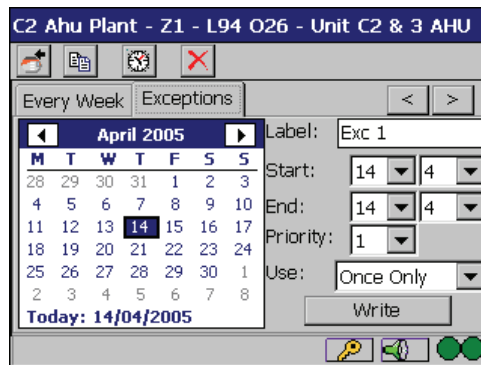
20 Tap **Write**. To save the times.

4.3.2.1 Delete an Exception



For IQ3 controllers exceptions that are no longer required can be deleted.

To delete an exception:



- 1 If the **Log in Display** is visible, or another user is logged in log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone from which an exception is to be deleted as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap the timezone whose occupation times are to be changed.
- 4 Tap  in the **Toolbar**.
- 5 Tap the **Exceptions** tab. A screen similar to the one shown below is displayed.




6 Tap the day from which the exception is to be deleted.

If the required day is not visible tap  or  to select the required month, or tap the month to display a list of the next 12 months.

7 Tap .



If the  is not visible this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

4.3.2.2 Edit an Exception

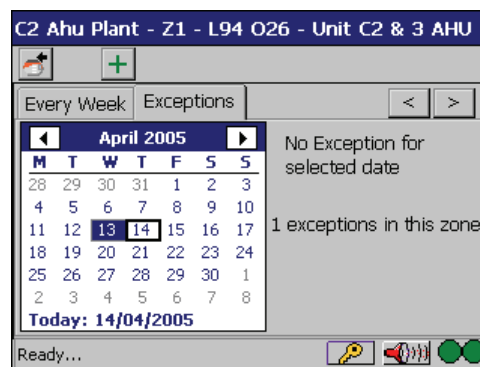
For IQ3 controllers once an exception has been set up it can be edited to adjust the times, or change the day(s) to which it applies.

To edit an exception:



- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone whose current week is to be changed as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap the timezone whose occupation times are to be changed.
- 4 Tap  in the **Toolbar**.

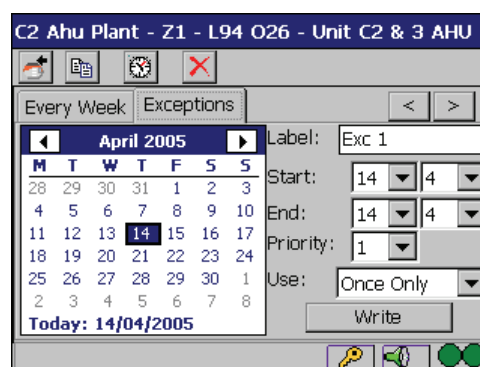
4.3.2.2 Edit an Exception (Continued)

5 Tap the **Exceptions** tab. A screen similar to the one shown below is displayed.




6 Tap the day containing the exception that is to be edited.

If the required day is not visible tap  or  to select the required month, or tap the month to display a list of the next 12 months.



7 Edit the exception as required.

For details of setting up the parameters see the 'Add an Exception' section of this manual.

If the boxes on the right are greyed out this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.



Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the boxes will never be greyed out even if the PIN is incorrect.

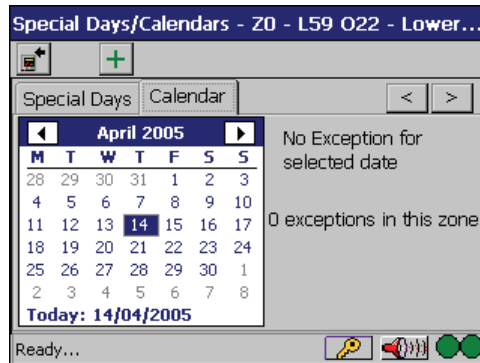
8 Tap **Write**.

4.3.3 Add a Calendar Day



For pre IQ3 controllers days can be set to be occupied at times different to the normal occupation times, e.g. for bank holidays by adding a calendar day for that day.


To add a calendar day:

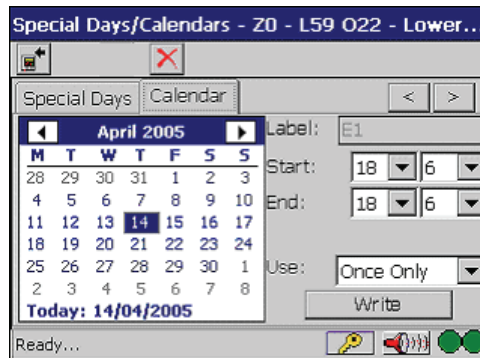
- 1 Set up the special days as described in the 'Set up Special Days' section of this manual.
- 2 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 3 View a list of timezones containing the timezone to which the exception is to be added as described in the 'Display a List of Timezones' section of this manual.
- 4 Tap **Special Days/Calendar**.
- 5 Tap  in the **Toolbar**.
- 6 Tap the **Calendar** tab. A screen similar to the one shown below is displayed.






- 7 Tap the day to which the calendar day is to apply.


If the required day is not visible tap  or  to select the required month, or tap the month to display a list of the next 12 months.

- 8 Tap . The display will change as shown below.

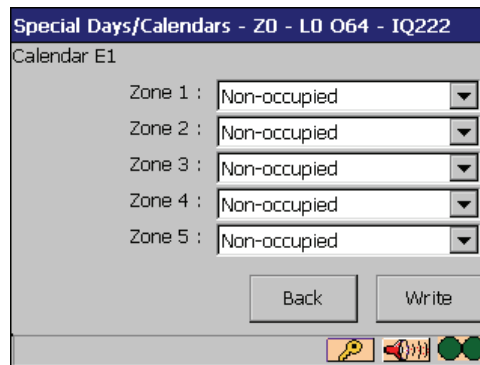


If the  is not visible this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

- 9 Specify first day to which the calendar day is to apply by tapping in the **Start Date** box and tapping the required date, and then tapping in the **Start Month** box and tapping the required month.
- 10 Specify the last day to which the calendar day is to apply by tapping in the **Stop Date** box and tapping the required date, and then tapping in the **Stop Month** box and tapping the required monthly.
- 11 Specify whether the exception is to occur once only, or to be repeated every year by tapping the required option in the **Use** box.
- 12 Tap **Write**.
- 13 Tap . The **Special Days/Calendar** dialogue box is displayed which enables the times for the exception to be specified.

4.3.3 Add a Calendar Day (Continued)




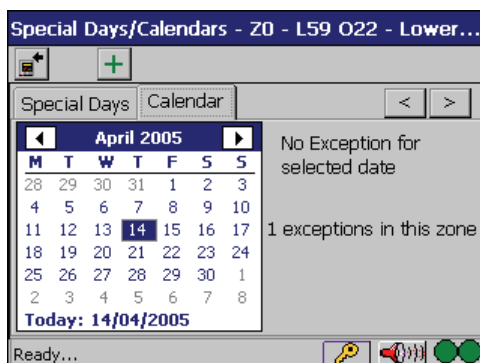
- 14 Specify the special day whose times are to be used by each timezone by tapping the required one in the appropriate box. Tap **Normal Occupation** to cause the timezone to work the normal occupation times. Tap **Non-occupied** to cause the timezone be non-occupied all day.
- 15 Tap **Write**. To save the times.

4.3.2.1 Delete a Calendar Day



For pre IQ3 controllers calendar days that are no longer required can be deleted.

To delete a calendar day:



- 1 If the **Log in Display** is visible, or another user is logged in log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone from which an exception is to be deleted as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap **Special Days/Calendar**.
- 4 Tap  in the **Toolbar**.
- 5 Tap the **Calendar** tab. A screen similar to the one shown below is displayed.




- 6 Tap the day from which the calendar day is to be deleted.

If the required day is not visible tap  or  to select the required month, or tap the month to display a list of the next 12 months.

- 7 Tap .


If the  is not visible this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

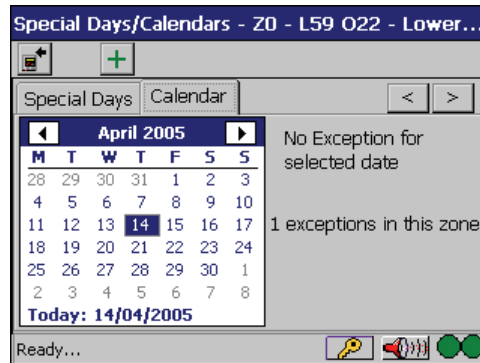
Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

4.3.2.2 Edit a Calendar Day



For pre IQ3 controllers once a calendar day has been set up it can be edited to adjust the times, or change the day(s) to which it applies.

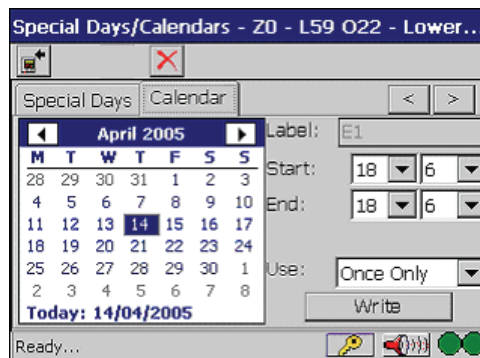
To edit an exception:

- 1 If the **Log in Display** is visible, or another user is logged in log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone from which an exception is to be deleted as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap **Special Days/Calendar**.
- 4 Tap  in the **Toolbar**.
- 5 Tap the **Calendar** tab. A screen similar to the one shown below is displayed.




- 6 Tap the day from which the calendar day is to be edited.

If the required day is not visible tap  or  to select the required month, or tap the month to display a list of the next 12 months.



- 7 Edit the calendar as required.

For details of setting up the parameters see the 'Add a Calendar Day' section of this manual.

If the boxes on the right are greyed out this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.



Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the boxes will never be greyed out even if the PIN is incorrect.

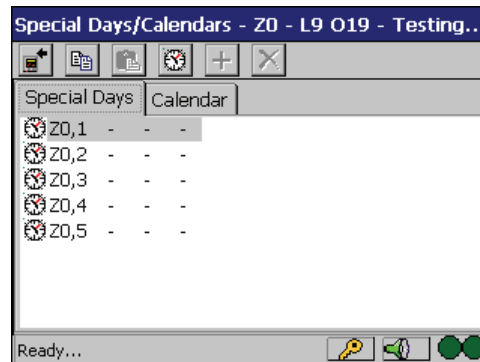
- 8 Tap **Write**.


4.3.2.3 Set up Special Days

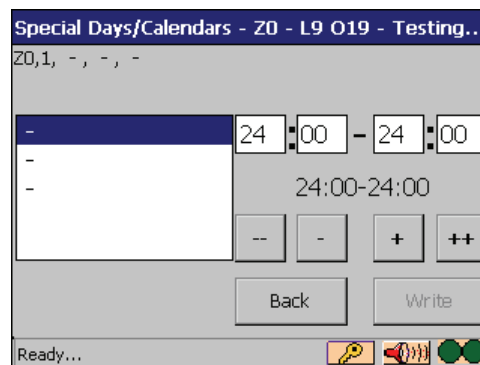
For pre IQ3 controllers set of occupation times known as special days used to specify the times worked by calendar days can be set up.





To set up a special day:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone to which the exception is to be added as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap **Special Days/Calendar**.
- 4 Tap  in the **Toolbar**.
- 5 Tap the **Special Days** tab. A screen similar to the one shown below is displayed.



- 6 Tap the special day that is to be set up
- 7 Tap . A dialogue box is displayed which enables the times for the special day to be specified.





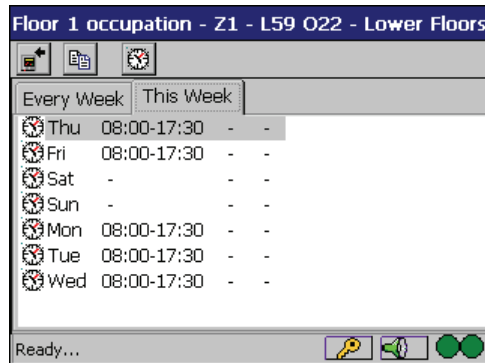
- 8 Tap the period whose occupation times are to be changed, they will appear in the boxes on the right.
- 9 Tap in the required box and use  /  to increment/decrement the value by 1 or  /  to increment/decrement the value by 2 hours or 5 minutes depending on the selected box.
- 10 Tap **Write**. To save the times.

4.3.4 Change the Current Week




For pre IQ3 controllers the occupation times for today and the next 6 days can be adjusted. This enables the days to work times different to the normal occupation times.


To change the current week:


- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone whose current week is to be changed as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap the timezone whose occupation times are to be changed.
- 4 Tap  in the **Toolbar**.
- 5 Tap the **This Week** tab. A screen similar to the one shown below is displayed.

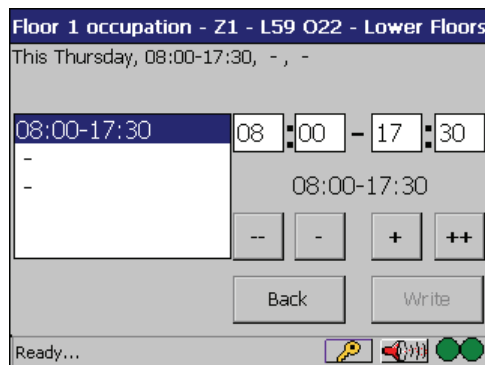






- 6 Tap the day for which the occupation times are to be changed.

Days for which the times can be adjusted a  next to them in the list. If the day has a  icon next to it in the list this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

- 7 Tap . The time adjust dialogue box is displayed.





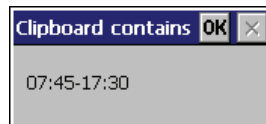
- 8 Tap the period whose occupation times are to be changed they will appear in the boxes on the right.
- 9 Tap in the required box and use  /  to increment/decrement the value by 1 or  /  to increment/decrement the value by 2 hours or 5 minutes depending on the selected box.
- 10 Once the times are as required tap **WRITE**.


4.3.5 Copy and Paste Times



Occupation times from one day/exception can be copied and then pasted to another day/exception even to another controller.


To copy and paste times:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 Display the times that are to be copied as described in the 'Display Occupation Times' section of this manual.
- 3 Tap the day containing the times that are to be copied. They will be highlighted.
- 4 Tap . The times are copied to the clipboard, and a dialogue box displayed containing the times that have been copied.



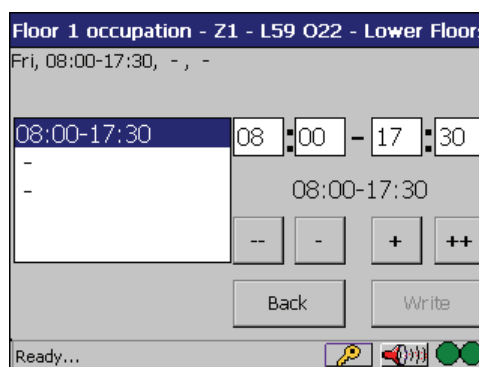
- 5 Tap **OK** to close the dialogue box.
- 6 Display the timezone to which the times are to be pasted as described in the 'Display Occupation Times' section of this manual.
- 7 Tap the day to which the times are to be pasted. They will be highlighted.
- 8 Tap . The time adjust dialogue box is displayed containing the pasted times.

If the  is not visible this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controllers with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

If times are being pasted to an exception or a day in an IQ3 controller the exception must have the same number of occupation periods set up as the times that are to be pasted. When pasting over times that have already been set up the periods will be overridden, and if there are more periods defined than those being pasted over the additional periods will remain unchanged. If there are less then only the first period will be pasted.

E.g. if only 1 occupation period is on the clipboard (13:00 - 14:00) and an attempt is made to paste those times on to a day with 2 occupation periods (21:00 - 22:00, and 22:30 to 23:00) time adjust dialogue box will contain 2 occupation periods (13:00 - 14:00, and 22:30 - 23:00). If there are 2 occupation periods on the clipboard (15:00-16:00, and 18:00-19:00) and an attempt is made to paste those times on to a day with only 1 occupation period the time adjust dialogue box will only contain 1 occupation period (15:00-16:00).




- 9 Check that the times are correct.
- 10 Tap **WRITE**.




4.4 Adjust Values


4.4.1 Adjust a Knob

Providing the level of the PIN you are using is greater than the PIN level required to adjust the knob the value of the knob can be adjusted.

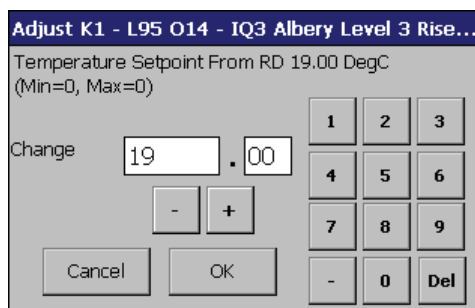
To adjust a knob:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View the knob that is to be adjusted as described in the 'Display a List of Knobs' section of this manual.
- 3 Tap the knob that is to be adjusted. It will be highlighted.



Knobs that can be adjusted have a  next to them in the list. If the knob has a  icon next to it in the list this may be because the current PIN will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controller with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

- 4 Tap  in the **Toolbar**. The **Adjust** dialogue box is displayed.



- 5 Enter the new value by tapping numbers, or tapping - or + to decrement/increment the value.

To enter a value after the decimal point touch in the decimal point box and enter the new value by tapping numbers, or tapping  or  to decrement/increment the value.


- 6 Tap **OK**.




Note that if a value outside the knob's adjustment range is specified the OK button will be disabled.


4.4.2 Adjust a Switch

Providing the level of the PIN you are using is greater than the PIN level required to adjust the switch the value of the switch can be adjusted.

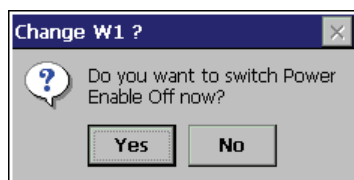
To adjust a switch:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View the switch that is to be adjusted as described in the 'Display a List of Switches' section of this manual.
- 3 Tap the switch that is to be adjusted. It will be highlighted.

Switches that can be adjusted have a  next to them in the list. If the switch has a  icon next to it in the list this may be because the PIN associated with you username will not allow the change. If you know another PIN you can specify it by clicking on  providing the icon is visible.

Note for IQ2 controller with pre v2 firmware, and IQ3 controllers with pre v1.12 firmware the  will be displayed against all items even if the PIN is incorrect.

- 4 Tap  in the **Toolbar**. The **Adjust** dialogue box is displayed.



- 5 Tap **Yes** to make the change. To close the dialogue box without making the change tap **No**.

4.5 Caring for the Screen

To maximise the life of the touch screen you should follow the following guidelines.


- Only touch the screen with your finger, do not touch the screen with sharp objects (e.g. screwdrivers or pointers).
- The screen should be cleaned regularly to remove dust and grease by wiping gently with a soft cloth such as that used for cleaning the lenses of spectacles.
- Hard wiping accumulated dust will leave scars on the surface even using a cloth.

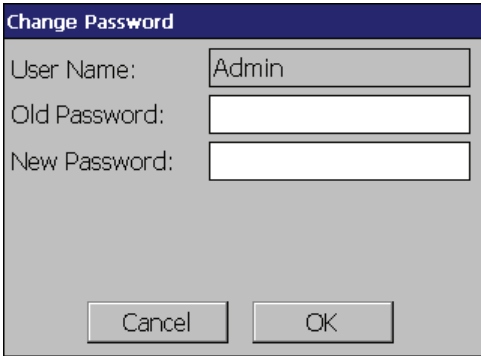
Failure to comply with these guidelines may damage the unit.

4.6 Change Your Password



You can change your password; this may be required if someone else knows it or it is difficult to remember.

To change your password:

- 1 Log in as described in the 'Log In' section of this manual.
- 2 Tap , and on the displayed menu tap **Change Password**. The **Password** dialogue box is displayed.



The image shows a 'Change Password' dialog box with a dark blue header. It contains three text input fields: 'User Name:' with 'Admin' entered, 'Old Password:', and 'New Password:'. At the bottom, there are two buttons: 'Cancel' and 'OK'.


- 3 Tap in the **Old Password** box. The keyboard is displayed.
- 4 Enter your password by tapping the keyboard.
- 5 Tap .
- 6 Tap in the **New Password** box. The keyboard is displayed.
- 7 Enter your new password by tapping the keyboard.
- 8 Tap .
- 9 Tap **OK**.


4.7 Display a Graph

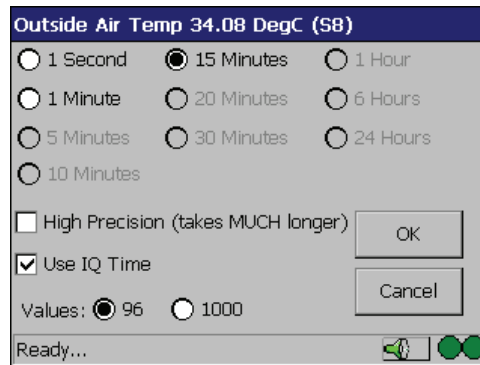
IQView enables a graph of sensors logged in a controller to be displayed. It allows both compact and precision logs to be displayed as a graph. Each graph can show 96 or 1000 values.

To display a graph:

- 1 Display the sensor that is to be graphed as described in the 'Display a List of Sensors section of this manual.
- 2 Tap the sensor that is to be adjusted. It will be highlighted.

Sensors that can be graphed have a  next to them in the list.

- 3 Tap  in the **Toolbar**. The dialogue box shown below is displayed.



- 4 Tap the appropriate radio button to specify required logging interval. The selected option will be selected (⊙).

Note that only the intervals at which the sensor is being logged in the controller are available. The remainder are disabled.

- 5 If a precision log is required select the **High Precision** to check box. A compact graph is recommended (box unchecked) as it will display quicker, but is less accurate. A precision graph is accurate but will take much longer to display. If the option is not available a compact graph is displayed.
- 6 If you want to use the time from IQView rather than the time from the controller clear the **Use IQ Time** check box. It is recommended that the IQ time is used.

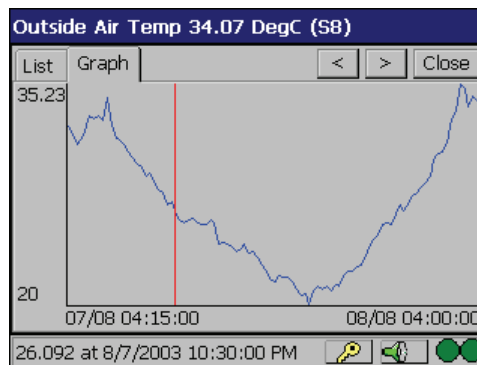
Note that if this option is selected the time will be taken from the IQ but the date will be the date set on IQView.

- 7 Tap either **96** or **1000** to specify the number of points that are to be graphed. It is recommended that only 96 values are used.

Note that for some users the option in steps (5), (6), and (7) are not available. If this is the case the recommended options are used.

- 8 Tap **OK**. The required graph is displayed in the **Graph Display** as shown below.

To view the time and the value at a particular point tap the point on the graph the selected point is indicated by the vertical line. To move the vertical line to the next/previous value tap < or >. To view a list of the graph data tap **List**.



- 9 To close the graph tap **Close**.

4.7.1 Display the Graph Data

The co-ordinates of a graph can be displayed.

To display the graph as a list of points:

- 1 Display the required graph as described in the 'Display a Graph' section of this manual.
- 2 Tap **List**. The co-ordinates are displayed as shown below.

#	Date Time	Value
19	8/7/2003 8:45:00 PM	28.8334
20	8/7/2003 9:00:00 PM	28.9857
21	8/7/2003 9:15:00 PM	28.5288
22	8/7/2003 9:30:00 PM	27.9196
23	8/7/2003 9:45:00 PM	27.615
24	8/7/2003 10:00:00 PM	26.8535
25	8/7/2003 10:15:00 PM	27.0058
26	8/7/2003 10:30:00 PM	26.092

The list contains data for the specified trace. When the graph data is displayed the point selected on the graph (where the red line is) will be highlighted in the list. If another point is selected by tapping it that point will remain selected when you return to the graph i.e. the list and the red line on the graph are kept in synch.

- 3 To return to the graph tap **Graph**.











4.8 Display Alarms

4.8.1 Display Received Alarms

IQView indicates when an alarm has been received from the IQ system by beeping, flashing the screen etc. depending on how it has been set up. The alarms can be viewed in the **Received Alarms Display**. The information in the list will be lost if IQView is powered down.





To display alarms:

- 1 Tap . The **Alarms Display** is displayed.

IQ Set Time	Alarm Datafield	Source
 14/04 15:02	Internetwork ...	L000
 14/04 15:02	Internetwork ...	L000
 14/04 15:02	Internetwork ...	L000
 14/04 14:58	Internetwork ...	L000
 14/04 14:57	Internetwork ...	L000
 14/04 14:51	Internetwork ...	L000
 14/04 14:50	Internetwork ...	L000
 14/04 14:43	Internetwork ...	L000
 14/04 14:42	Internetwork ...	L000
 14/04 13:14	G501HELP1314	L40053





When this display is visible the alarm actions specified will be stopped. The actions will restart again when the display is closed unless the alarms have been acknowledged.







Icons indicate whether or not an alarm has been actioned by a user. Colours are used to indicate whether the alarm is a set alarm or a cleared alarm. A red bell indicates an occurred alarm, and a green bell indicates a cleared alarm. If the alarm has been actioned by the user the bell will appear with a tick over it. The table below shows the different icons.

Icon	Description	Icon	Description
	Red bell indicates a set alarm that has not been acknowledged.		Green bell indicates a cleared alarm that has not been acknowledged.
	Red bell with tick indicates a set alarm that has been acknowledged.		Green bell with tick indicates a cleared alarm that has been acknowledged.

4.8.1 Display Received Alarms (Continued)

For details of the **Received Alarms Display** see the 'The Received Alarms Display' section of this manual.

To display more information about an alarm tap . If you have the authority you can acknowledge the alarm by tapping the alarm and then tapping  or . Alarms can be deleted from the list by tapping it and then tapping . Tapping the top of a column will sort the data by that column.


2 Tap , , , , , or  to return to the original display.

Note that if no action is taken for 2 minutes the display will close automatically.

4.8.2 Display Current Alarms in a Controller

A list of all the sensor, driver, and digital input modules currently in alarm (current alarms) for a particular controller can be displayed.





To view current alarms in a controller:

1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

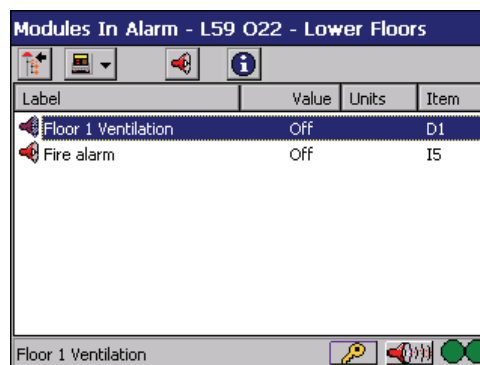
Note that not all users will be able to display IQ alarms.

2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller. For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

3 Tap the required controller to highlight it a menu is displayed.


Note this if a controller has been selected and the menu is not displayed tap , , , or  depending on controller type.

4 Tap **IQ Alarms** and then tap **Current**. The **Current Alarms Display** appears containing the list of current alarms.



Label	Value	Units	Item
Floor 1 Ventilation	Off		D1
Fire alarm	Off		I5

For details of the **Current Alarms Display** see the 'Current Alarms Display' section of this manual.


To view more information about a current particular alarm tap  in the **Toolbar**. Tapping the top of a column will sort the data by that column.

5 To return to the **Navigator Display** tap .

4.8.3 Display a Controller's Alarm Log




For IQ3 controllers with v1.2 firmware and pre IQ3 controllers the controllers alarm log can be displayed. This is a list of the last 20 alarms that occurred.

To view a controller's alarm log:

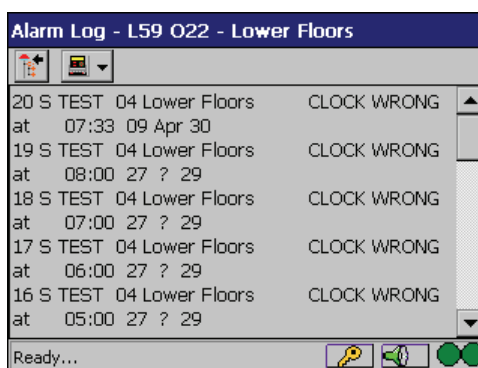
- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display IQ alarms.

- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller. For more details of locating controllers see the 'Navigate to a Controller' section of this manual.
- 3 Tap the required controller to highlight it a menu is displayed.

Note this if a controller has been selected and the menu is not displayed tap , , or  depending on controller type.


- 4 Tap **IQ Alarms** and then tap **Alarm Log**. The **Alarm Log Display** appears containing the specified alarms.





For details of the **Alarm Log Display** see the 'Alarm Log Display' section of this manual.

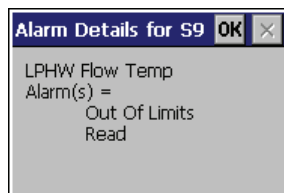
- 5 To return to the **Navigator Display** tap .

4.8.4 Display IQ Alarm Details

When viewing IQ alarms or modules any driver, sensor, or digital inputs currently in alarm has a  next to it in the list. If required more information about the alarm can be displayed.

To display IQ alarm details:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View the current alarms in a controller as described in the 'Display Current Alarms in a Controller' section of this manual.
- 3 Tap  in the **Toolbar**. The dialogue box shown below is displayed.



- 4 To close the dialogue box tap **OK**.



4.8.5 Delete Alarms From the Alarms Display




The alarms that have been sent to IQView are kept in the list. This list can contain 100 alarms after which the oldest alarms in the list will be overwritten. When the list is full it can be difficult to find the required alarm. Therefore it is recommended that once the problem that caused the alarm has been corrected the alarms related to it be deleted.







To delete alarms:

- 1 If the **Log in Display** is visible, or another user is logged in log in as described in the 'Log In' section of this manual.

*Note that not all users will be able to delete alarms from the **Alarms Display**.*

- 2 Tap  to display the **Alarms Display**.
- 3 Tap the alarm that is to be deleted.
- 4 Tap  in the **Toolbar**.



To delete all alarms tap  and from the displayed menu tap **Delete All**. To delete all acknowledged alarms tap  and from the displayed menu tap **Del All Acknowledged**. To delete all cleared alarms tap  and from the displayed menu tap **Del All Cleared**.

- 5 Tap , , , , , or  to return to the original display.

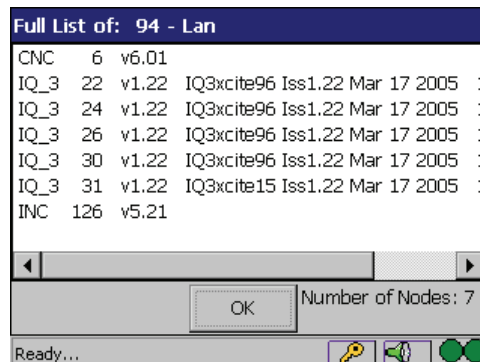
4.9 Display All Devices on a Lan

If required IQView can display a list of devices on the selected Lan that include the devices that are not controllers.

To display other devices on the Lan:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 Navigate down the tree structure to locate the required Lan by tapping + to expand Lan containing the required controller.
- 3 Tap the Lan to highlight it.
- 4 Tap  and from the displayed menu tap **Show All Devices**. The dialogue box shown below is displayed listing all devices on the Lan.

Note that not all users will be able to access the Lan menu.




4.10 Display Module Lists

4.10.1 Display a List of Digital Inputs

IQView enables a list of the digital input modules used in the strategy for a controller to be displayed. The list displays the digital input's label, number, and current value, and will indicate if it is in an alarm condition.

To display a list of digital inputs:





- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of digital inputs.

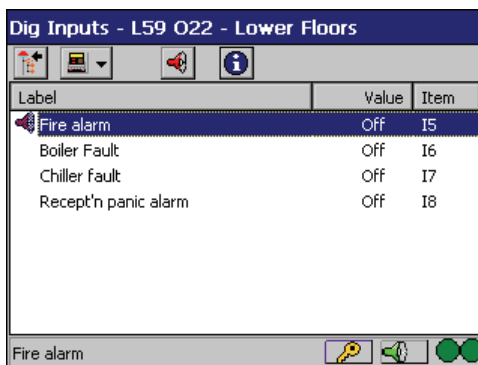
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required controller to highlight it, a menu is displayed.




Note this if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.

- 4 Tap **Modules** and from the displayed menu tap **Dig Inputs**. The **Modules Display** appears containing the list of digital inputs.



Label	Value	Item
Fire alarm	Off	I5
Boiler Fault	Off	I6
Chiller fault	Off	I7
Recept'n panic alarm	Off	I8

For details of the **Modules Display** see the 'Modules Display' section of this manual.


Tapping  displays more information about the input. Inputs in an alarm condition have  next to them. Details about the alarm can be displayed by tapping .

- 5 To return to the **Navigator Display** tap .

4.10.2 Display a List of Drivers

IQView enables a list of the driver modules used in the strategy for a controller to be displayed. The list displays the driver's label, number, and current value, and will indicate if the driver is in an alarm condition.

To display a list of drivers:





- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of drivers.

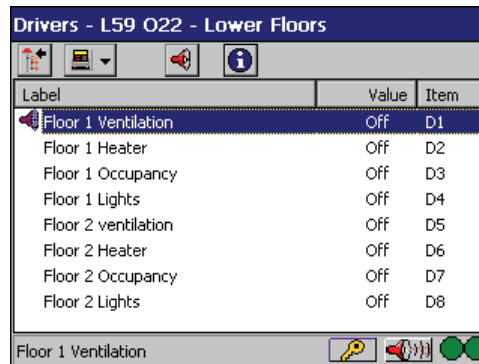
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required controller to highlight it a menu is displayed.








Note this if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.

- 4 Tap **Modules** and from the displayed menu tap **Drivers**. The **Modules Display** appears containing the list of drivers.



Label	Value	Item
Floor 1 Ventilation	Off	D1
Floor 1 Heater	Off	D2
Floor 1 Occupancy	Off	D3
Floor 1 Lights	Off	D4
Floor 2 ventilation	Off	D5
Floor 2 Heater	Off	D6
Floor 2 Occupancy	Off	D7
Floor 2 Lights	Off	D8

For details of the **Modules Display** see the 'Modules Display' section of this manual.


Tapping  displays more information about the driver. Drivers in an alarm condition have  next to them. Details about the alarm can be displayed by tapping . A  indicates the driver has been disabled. A  indicates the driver has been overridden by a software tool or supervisor. A  indicates the driver has been forced ON using a HOA switch.  indicates the driver has been forced OFF using a HOA switch.

- 5 To return to the **Navigator Display** tap .

4.10.3 Display a List of Knobs

IQView enables a list of the knob modules used in the strategy for a controller to be displayed. The list displays the knob's label, number, and current value. If you have a PIN of a high enough level the knob can be adjusted.

To display a list of knobs:





- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of knobs.

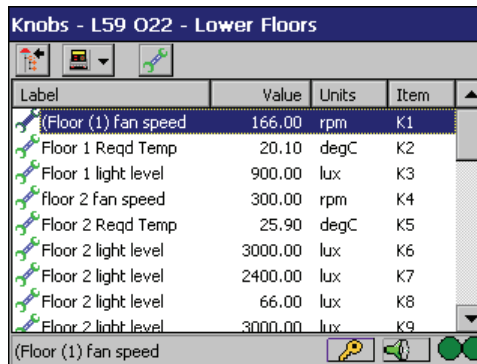
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required controller to highlight it a menu is displayed.



Note this if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.

- 4 Tap **Modules** and from the displayed menu tap **Knobs**. The **Modules Display** appears containing the list of knobs.



Label	Value	Units	Item
(Floor 1) fan speed	166.00	rpm	K1
Floor 1 Reqd Temp	20.10	degC	K2
Floor 1 light level	900.00	lux	K3
Floor 2 fan speed	300.00	rpm	K4
Floor 2 Reqd Temp	25.90	degC	K5
Floor 2 light level	3000.00	lux	K6
Floor 2 light level	2400.00	lux	K7
Floor 2 light level	66.00	lux	K8
Floor 2 light level	3000.00	lux	K9

For details of the **Modules Display** see the 'Modules Display' section of this manual.


Knobs with a  next to them can be adjusted by tapping .

- 5 To return to the **Navigator Display** tap .

4.10.4 Display a List of Sensors

IQView enables a list of the sensor modules used in the strategy for a controller to be displayed. The list displays the sensor's label, number, and current value, and will indicate if the sensor is in an alarm condition. If the sensor is being logged in the controller a graph of the sensor can be displayed.

To display a list of sensors:





- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of sensors.

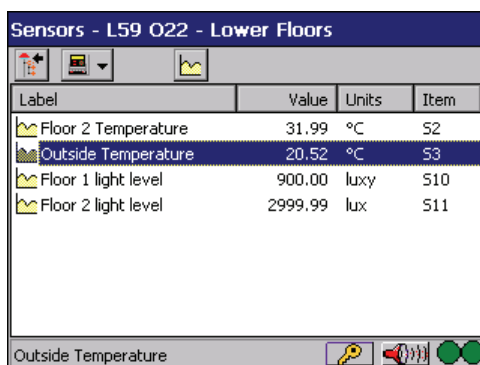
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required controller to highlight it a menu is displayed.



Note this if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.


- 4 Tap **Modules** and from the displayed menu tap **Sensors**. The **Modules Display** appears containing the list of sensors.



Label	Value	Units	Item
Floor 2 Temperature	31.99	°C	S2
Outside Temperature	20.52	°C	S3
Floor 1 light level	900.00	luxy	S10
Floor 2 light level	2999.99	lux	S11

For details of the **Modules Display** see the 'Modules Display' section of this manual.

Sensors with a  next to them can be graphed by tapping . Sensors in an alarm condition have  next to them.


Details about the alarm can be displayed by tapping .

- 5 To return to the **Navigator Display** tap .

4.10.5 Display a List of Switches

IQView enables a list of the switch modules used in the strategy for a controller to be displayed. The list displays the knob's label, number, and current value. If you have a PIN of a high enough level the knob can be adjusted.

To display a list of switches:





- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of switches.

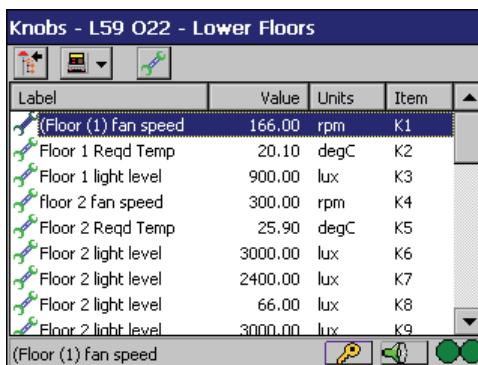
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required controller to highlight it a menu is displayed.



Note this if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.

- 4 Tap **Modules** and from the displayed menu tap **Switches**. The **Modules Display** appears containing the list of switches.



Label	Value	Units	Item
(Floor 1) fan speed	166.00	rpm	K1
Floor 1 Req'd Temp	20.10	degC	K2
Floor 1 light level	900.00	lux	K3
Floor 2 fan speed	300.00	rpm	K4
Floor 2 Req'd Temp	25.90	degC	K5
Floor 2 light level	3000.00	lux	K6
Floor 2 light level	2400.00	lux	K7
Floor 2 light level	66.00	lux	K8
Floor 2 light level	3000.00	lux	K9

For details of the **Modules Display** see the 'Modules Display' section of this manual.


Switches with a  next to them can be adjusted by tapping .

- 5 To return to the **Navigator Display** tap .

4.10.6 Display a List of Timezones

IQView enables a list of the timezone modules used in the strategy for a controller to be displayed. The list displays the timezone's label, number, and occupation status.

To display a list of timezones:




- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of timezones.

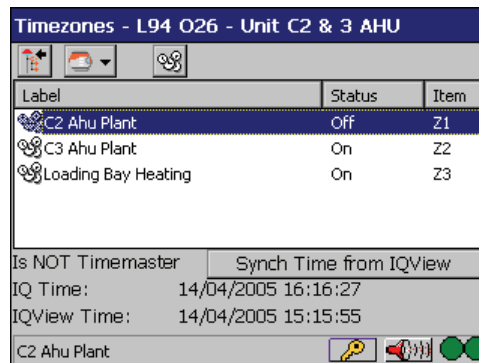
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.


- 3 Tap the required controller to highlight it a menu is displayed.

Note this if a controller has been selected and the menu is not displayed tap  or  or  depending on controller type.


- 4 Tap **Timezones**. The **Modules Display** appears containing the list of timezones.



Label	Status	Item
C2 Ahu Plant	Off	Z1
C3 Ahu Plant	On	Z2
Loading Bay Heating	On	Z3

Is NOT Timemaster Synch Time from IQView
IQ Time: 14/04/2005 16:16:27
IQView Time: 14/04/2005 15:15:55
C2 Ahu Plant 

For details of the **Modules Display** see the 'Modules Display' section of this manual.

If required the details of the timezones occupation times can be displayed by tapping .

- 5 To return to the **Navigator Display** tap .

4.10.7 Display Display and Directory Modules

IQView enables the display and directory modules used in the strategy for a controller to be displayed.

To display display and directory module:





- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.

Note that not all users will be able to display a list of display and directory modules.

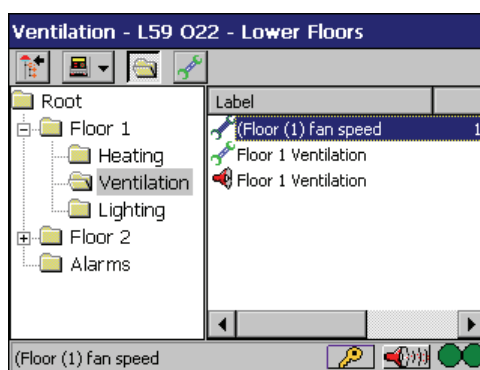
- 2 Navigate down the tree structure to locate the required controller by tapping '+' to expand Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required controller to highlight it a menu is displayed.

Note this if a controller has been selected and the menu is not displayed tap  or  or  or  depending on controller type.


- 4 Tap **Modules** and from the displayed menu tap **Directories**. The **Modules Display** appears containing the display and directory modules.



For details of the **Modules Display** see the 'Modules Display' section of this manual.

- 5 Tap the required directory module in the directory list on the left of the display. The module display items for that directory are displayed in the section on the right.

The different modules on have the same functions as when viewed in the individual module lists.



The display of the directory list can be toggled ON/OFF by tapping . When the list is off the list of module display items is expanded to full screen, and the name of the directory module is displayed in the **Title Bar**.

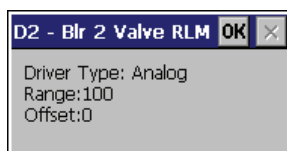
- 6 To return to the **Navigator Display** tap .

4.10.8 Display Driver/Digital Input Details

When viewing modules more information about the selected driver or digital input can be displayed. The information displayed depends on the type of module.

To display driver/digital input details:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View the required driver/digital input as described in the 'Display a List of Drivers' or 'Display a List of Digital Inputs' sections of this manual.
- 3 Tap the driver/digital input whose details are to be displayed.
- 4 Tap  in the **Toolbar**. The dialogue box shown below is displayed.





- 5 To close the dialogue box tap **OK**.

4.11 Display Occupation Times

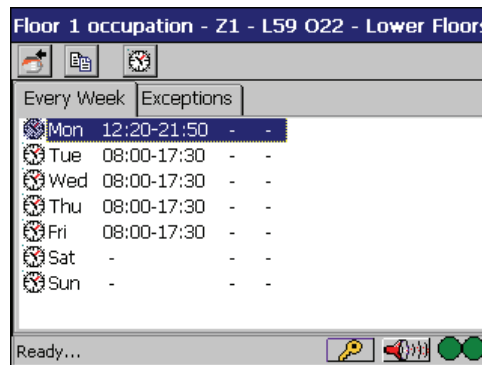
The occupation times of a particular controller on the system can be viewed.

To view the occupation times:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones containing the timezone whose occupation times are to be viewed as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap the timezone whose occupation times are to be displayed, or if viewing special days and calendars on pre IQ3 controllers tap **Special Days/Calendars**.
- 4 Tap  in the **Toolbar**. The **Zone Display** is displayed.
- 5 View the required occupation times. The information available depends on the type of controller.

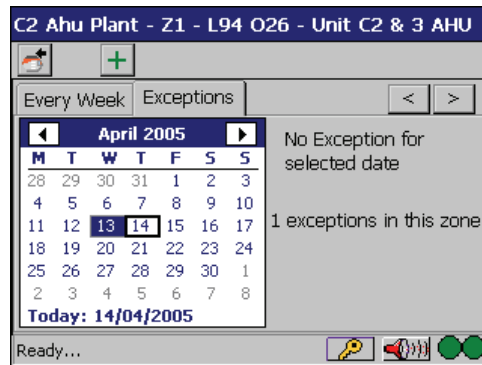
IQ3 Controllers




- Tap the **Every Week** tab to view the times worked each week. The display appears as shown below.

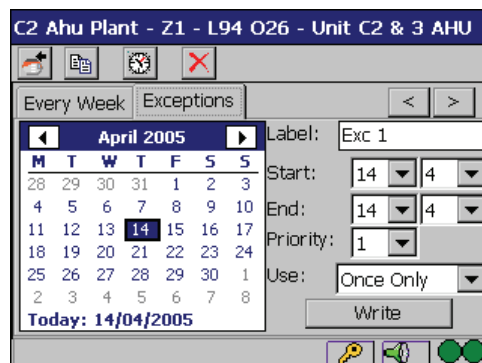


Or

- Tap the **Exceptions** tab to view the days for which exceptions have been specified. The display appears as shown below.



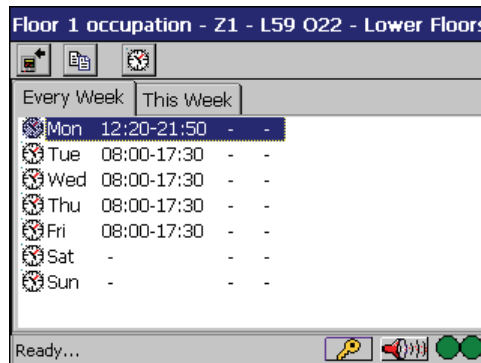
- If the required day is not visible tap  or  to select the required month.
- To view the occupation times for an exception tap the required day, the times will be displayed in the status bar, and details about the exception will be displayed on the right as shown below. To move to the next/previous exception tap < or >. If the times do not fit in the status bar tap  to display the times in a dialogue box.



4.11 Display Occupation Times (Continued)

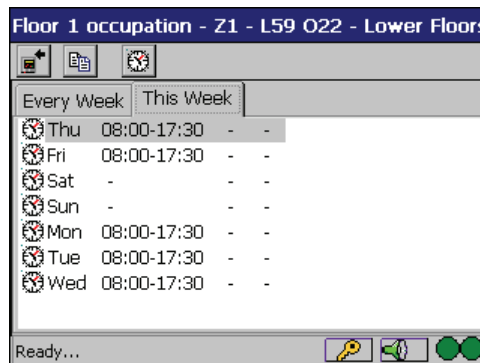
Pre IQ 3 controllers

- Tap the **Every Week** tab to view the times worked each week. The display appears as shown below.



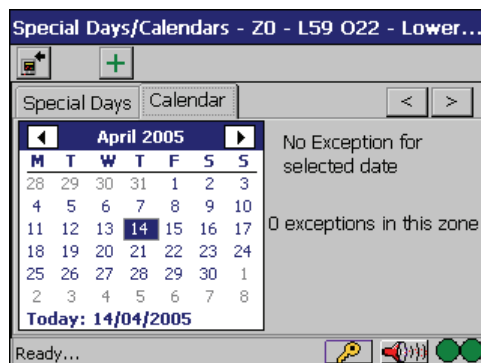
Or

- Tap the **This Week** tab to view the times that are being used for today and the next 6 days (current week) for which exception have been specified times. The display appears as shown below.




Pre IQ 3 controllers Special Days/Calendars

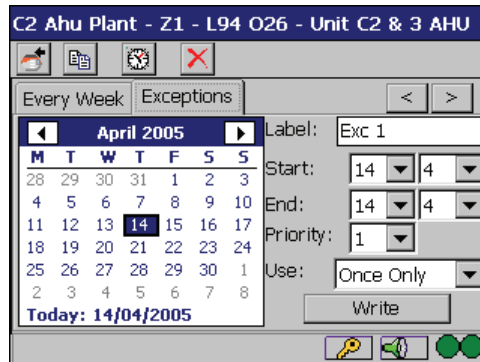
- Tap the **Calendar** tab to view the days for which calendar days have been specified. The display appears as shown below.



- If the required day is not visible tap  or  to select the required month.

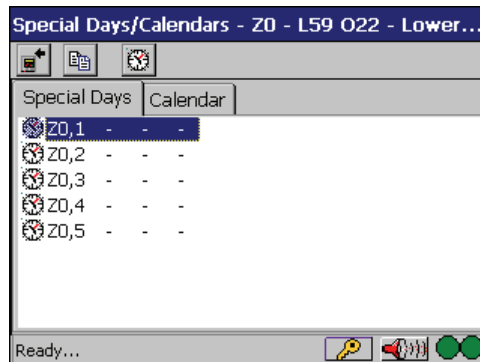
4.11 Display Occupation Times (Continued)

- To view the occupation times for a calendar days tap the required day, the times will be displayed in the status bar, and details about the exception will be displayed on the right as shown below. To move to the next/previous calendar day tap < or >. If the times do not fit in the status bar tap  to display the times in a dialogue box.



Or



- Tap the **Special Days** tab to view the times for each of the special days. The display appears as shown below.

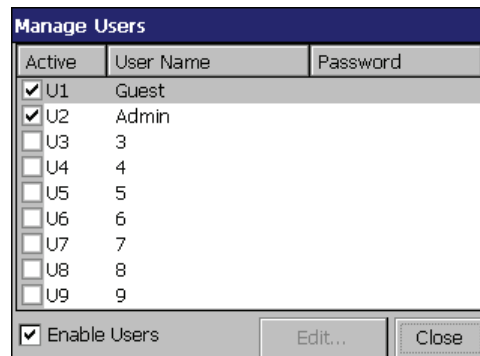


4.12 Forgotten Your Password

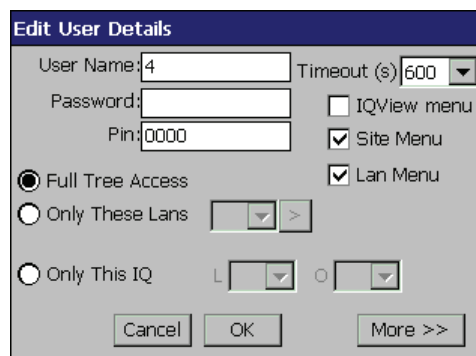
If you have forgotten your password you should contact someone with access to the IQView menu, and ask them to reset your password as described below.


To reset a password:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  then tap **Settings** and the tap **Users**. The **Manage Users** dialogue box is displayed.



- 3 Tap the user that is to be edited. It will be highlighted.
- 4 Tap **Edit**. The **Edit User Details** dialogue box is displayed.




- 5 Tap in the **Password** box. The keyboard is displayed.
- 6 Enter the password by tapping the letters on the keyboard.
- 7 Tap .
- 8 Tap **OK**.

If the user with access to the IQView menu forgets their password they should attempt to log in when they fail IQView will display a key, you should contact your installer quoting the key. They will be able to provide a new password for the user.

4.13 Log In

If users are enabled it is necessary to log in before IQView can be used, so that it knows what information and facilities you are able to access.

To log in:

- 1 When users are enabled and nobody is using IQView the page shown below is displayed. If this is not the case you should tap  and on the displayed menu tap **Log off/on**.
- 2 In the **User Name** box tap your username. The keyboard is displayed.



*Note that if you do not have a username and password for IQView you can log in as **Guest**. This user does not require a password.*


- 3 Enter your password by tapping the letters on the keyboard.
- 4 Tap **Login**.

If you forget your password, you should contact the person responsible for the administration of the system. If the password for the Admin user is forgotten you should contract Trend for assistance. For more details see the 'Forgotten Your Password' section of this manual.

4.14 Log Off

When you have finished using IQView it is advisable to log out to prevent unauthorised changes being made.

To log off:


- 1 Tap  and on the displayed menu tap **Log Off/on**.

Note that if left unattended for a period of time IQView will automatically log the current user off.

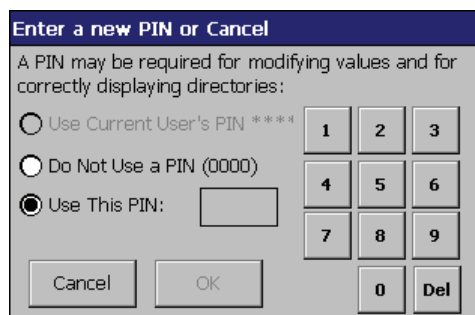
4.15 Specify the PIN

If users have not been enabled it is necessary to specify the PIN sent to controllers to authorise changes. This facility can also be used if the PIN associated with your user account will not authorise a change. This PIN will remain until you manually change it again, or log off and back in again.

To change the PIN:

- 1 Tap . The dialogue box shown below is displayed.

Note that for some users the  will not be visible.




4.15 Specify the PIN (Continued)

- 2 Tap **Use This PIN**. To use a PIN of '0000' tap **Do Not Use a PIN**. To revert to the PIN associated with your user account tap **Use Current User's PIN**.
- 3 If **Use This PIN** was selected enter the new PIN by tapping numbers.
- 4 Tap **OK**.

4.16 Synchronise the Controller Time

IQView enables users with a PIN corresponding to a user level of 50 or greater to synchronise the controller's time with that of the IQView. This is useful if there is a timemaster on the system, the correct time can be set on IQView, then IQView's 'Find Timkeeper' function can be used to find the timemaster and then the controllers time can be synchronised with that of IQView.


To log off:


- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 View a list of timezones from the controller whose time is to be synchronised as described in the 'Display a List of Timezones' section of this manual.
- 3 Tap **Synch Time From IQView**.

4.17 Navigate to a Controller

Before any information from a particular controller can be displayed you must select the required controller in the **Navigator Display**. This can be done by navigating down the tree structure to locate the required controller, or by searching for the controller.

To navigate to a controller:



- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 Navigate down the tree structure to locate the required controller by tapping + to expand the Lan containing the required controller.

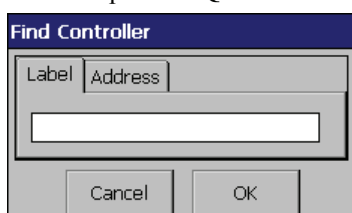
To collapse a Lan that has been expanded tap the - next to it. To expand all of the Lans tap  and from the displayed menu tap **Expand All**. To collapse all of the Lans tap  and from the displayed menu tap **Collapse All**.

The network structure displayed in the **Navigator Display** only contains controllers other devices are not shown.

Note that when a Lan that has not been learnt is tapped it is automatically learnt.


To find a particular controller:

- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 Tap  and from the displayed menu tap **Find IQ**. The **Find Controller** dialogue box is displayed.



- 3 Specify the controller that is to be found.

To find the controller using the label:

- Tap in the **Label** box. The keyboard is displayed.
- Enter the label by tapping the keyboard.
- Tap .

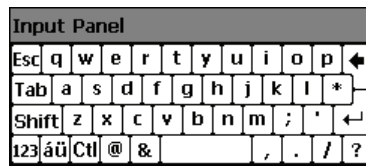
To find the controller using the address:

- Tap **Address**.
- In the **Lan** box tap the Lan number of the required controller,
- In the **Os** box tap the network address of the required controller.


- 4 Tap **OK**. The tree structure will be expanded to display the specified controller and the controller is highlighted.

4.18 Use the Keyboard

When information such as a password, or username IQView displays the keyboard, shown below.



To use the keyboard:

- 1 Tap the required keys. It works just like on a PC. To enter numbers tap **123** and then tap the required numbers.
- 2 Tap  once you have entered the required information.

5 INSTALL AND ENGINEER IQVIEW

5.1 Installation

The IQView should be installed as described in the supplied installation instructions. Once installed the IQView will need to be engineered as described in the 'Engineering IQView' section of this manual.

The surface mount version, is mounted on a flat surface, a wall, or panel using 3 screws. The rear panel mount version, is mounted behind a rectangular aperture in the panel using the 4 barrel headed hexagonal socket head screws provided, and a plastic bezel is clipped over the front to hide the fixings. The procedure involves:

- Mounting the unit
- Connecting power, do not power up
- Connecting the network
- Connect the relay output, if required
- Power up
- Engineer (only setting up the connection is mandatory)
- Test the unit

Before installing and using IQView you must read and agree to End User Licence Agreement in the supplied installation instructions.

A full description of installing the surface mount version is given in the IQView../SM installation instructions TG200711, and of installing the rear panel mount version is given in the IQView../RPM installation instructions TG200712. An appropriate mounting template is provided with the unit: IQView../SM template TG200722, and IQView../RPM template TG200723. The upgrading of firmware is described in the IQView Upgrade information sheet, TG200758. The installation of the IQView/NDP adapter plate is covered by TG200828 and the mounting template in TG200829.

5.2 Engineering IQView

This section describes how to engineer IQView. It is arranged in the order of the recommended engineering path with each aspect explained in detail.

Before Engineering IQView it must be installed and connected to the IQ network as described in the supplied installation instructions.

The engineering process is shown below:

- Plan The System
- Power up IQView
- Set up the Language
- Set up Ethernet Settings
- Set up the Site Connection
- Learn Lan Information
- Set up the Navigator Display
- Configure the Users
- Configure Alarm Handling
- Set up the IQView Time
- Set up the IQView Display
- Set up the Remote Devices List

IQView is a user- orientated system and it should be as simple as possible for a user to find information. Although the configuration is totally flexible, it is **strongly recommended** that these guidelines be followed.

5.2.1 Plan The System

Before you start, it is important to plan the system. This will enable the engineering work to be carried out more effectively, ensuring that the work is completed as quickly as possible.

Obtain Information about the system

Before starting to design an IQView system, you must obtain all the necessary information from the user, plant specifications, documentation and any other available source. This will help to provide a good understanding of how the system is intended to work.

Plan the System Security

If required IQView can be set up to restrict access to user with a username and password. This is done by enabling IQView's security and then setting up the users as required. Your first decision must therefore be whether the security is required, and if users are to be used you must decide what users are required and what access each will require.

When security is disabled, anyone will have full access to the system. However to make adjustments that are protected by the controllers security a valid PIN will need to be specified. Once security is enabled the system is protected and a user must log in using a username and password to gain access. Once logged in their access rights will determine what information they can see and what tasks they can perform. There can be up to nine different users each with their own access rights.

Because of the amount of information IQView makes easily available to users, some of which may be critical, it is necessary to prevent unauthorised people from making changes, or from accessing certain information. You must therefore decide who is going to access the system, what type of information they will be able to access, and what adjustments they will be able to carry out. The table below lists the different access rights that can be assigned.

<i>Option</i>	<i>Description</i>
Acknowledge Alarms	Determines whether the user can acknowledge alarms.
Add/Remove Nodes	Determines whether the user can add and remove nodes from the Navigator Display .
Delete Alarms	Determines whether the user can delete alarms.
Directories	Enables/Disables access to display and directory modules from IQ menu.
Enter PIN	Determines whether the user can change the PIN.
Full Tree Access	Enables the user to access to any controller in the Navigator Display .
Graph Options	Determines whether the user can specify whether a precision or compact log is retrieved, whether the time from IQView is used, and the number of points when a graph is displayed.
IQ Alarms	Enables/Disables access to current and historical alarms stored in a controller from the IQ menu.
IQView Menu	Enables/Disables access to the IQView menu which allows the user to set up IQView.
Lan Menu	Enables/Disables access to the Site menu that enables the Lan to be relearned, or for a list of all devices on the Lan to be displayed.
Modules	Enables/Disables access to sensor, driver, knob and switch modules from the IQ menu.
Only These Lans	Restricts the user's access to controllers on specified Lans.
Only this IQ	Restricts the user's access to a specified controller.
Site Menu	Enables/Disables access to the Site menus that enables the user to learn the entire siet, or reinitialise the connection.
Time & Zones	Enables/Disables access to timezones from the IQ menu.
Time Module	Enables/Disables the display of information about the controller's time module.

When the security is enabled the **Admin** and **Guest** users are activated. The default access rights of these users are defined in the table below. All the access rights for the **Guest** user can be adjusted. For the **Admin** user only certain access rights can be changed, these are indicated by a *.

5.2.1 Plan The System (Continued)

<i>Access Right/Parameter</i>	<i>Guest User</i>	<i>Admin User</i>
Acknowledge Alarms	Yes	Yes
Add/Remove Nodes	Yes	Yes
Delete Alarms	Yes	Yes
Directory Modules	Yes	Yes
Enter PIN	Yes	Yes
Full Tree	Full	Full
Graph Options	Yes	Yes
IQ Alarms	Yes	Yes
IQView Menu	No	Yes
Lan Menu	Yes	Yes
Modules	Yes	Yes
Password	N/A	_*
PIN	0000	0000*
Site Menu	Yes	Yes
Time & Zones	Yes	Yes
Time Module	Yes	Yes
Timeout	600	600*
Username	Guest	Admin*

Plan the Alarm Handling

One very important function of a Building Management System is to report when it is not working correctly. IQView can receive alarms from other devices on the IQ network, and display them in the **Received Alarms Display** and for any one of a number of different actions to be carried out.




It is possible to specify which of the alarms sent to the IQView are displayed in the **Alarms Display**. IQView does this by grouping the different types of alarms as explained in the table below:

<i>Alarm Category</i>	<i>Description</i>
Access	All alarms (DRAC, DRFS, DRFC, DRHS, DRHC, DROS, DROC, DRSC, DRVS, LPHI, IPHI, IPTP, ODOF, and ORON) sent from access controllers on the network.
Critical	All critical alarms (SCRI, and CCRI) sent from other devices on the network.
Dialler	All dialler (BTNR, ADNR, ANOL, LINR, MONR, and PGNV) alarms sent from other devices on the network.
General	All general alarms (CONL, FDRT, FPIA, FPRM, FRAM, FRTC, FSWR, HELP, FTKA, STOR, LMWG, FCAM, LFWG, FARC, FTIM, and FTKP) sent from other devices on the network.
Module	All alarms (READ, O/K, LOW, CLOW, HIGH, CHIH, OUTL, COUT, SDGT, CDGT, MINT, CMNT, DI=0, CDI0, DI=1, CDI1, PVFL, CPVL, SDEV, or CSDV) from modules sent from other devices on the network.
Network	All network (DVDD, DVOK, NKBK, NKOK, and NKCH) alarms sent from other devices on the network.
Unknown	Any alarms that are not covered by the other alarm categories.

By default all alarm categories are selected.

5.2.1 Plan The System (Continued)

When an alarm that is to be displayed in the **Alarms Display** arrives, IQView will carry out the specified action(s). The table below lists the actions:

Action	Description
Flash 	This action always occurs. The icon flashes between  and  .
Flash Screen	The screen will flash until the alarm is acknowledged.
Open Relay	The relay output will be opened until the alarm is acknowledged.
Sound Buzzer	A buzzer will sound until the alarm is acknowledged.
Flash LED	The power/alarm LED will be turned on and flash until the alarm is acknowledged.

The default alarm actions are:

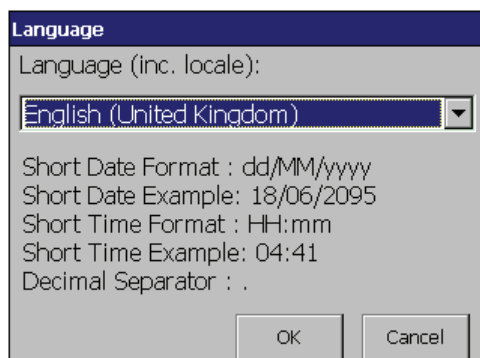
- Buzzer on
- Flash Screen off
- Relay OFF
- LED On

5.2.3 Power up IQView

The IQView should be powered up as described in the supplied installation instructions.

To power up IQView:

- 1 Ensure that IQView has been installed and connected to the IQ network as described in the supplied installation instructions.
- 2 Power up IQView as described in the installation instructions. As IQView powers up it will attempt to connect to the network.
- 3 If it is the first time the IQView has been powered up the **Language** dialogue box is displayed.



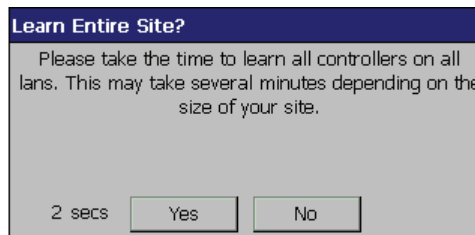
- 4 In the **Language (inc locale)** box tap the required language.

The format of the date and time, and the decimal separator that will be used is shown.

- 5 Tap **OK**.
- 6 If a site connection has already been defined IQView will attempt to connect to the IQ network using that connection, goto (7). If a site connection has not been set up (e.g. the unit is being powered up for the first time) the **Specify Site Connection** dialogue box is displayed to allow the site connection to be set up.
 - To specify the connection now define the connection as required and tap **OK**, see the 'Set up the Site Connection' of this manual.
 - To continue without setting up the connection tap **Cancel** goto (8).
- 7 If the connection has been defined in (6) or has previously been defined IQView will attempt to connect to the network using the defined connection, goto (8), if unsuccessful it will not connect to the IQ network, goto (11).

5.2.3 Power up IQView (Continued)

- 8 If IQView is unable to connect to the IQ network using the specified connection a dialogue box is displayed providing information about why the connection could not be made.
 - If the connection is not via Ethernet tap **OK** to close the dialogue box and goto (11).
 - If the connection is via Ethernet the failure may be because the Ethernet settings are not been set up. This could be because IQView has been unable to automatically determine the settings, or they have not been defined manually. If this is the case a dialogue box is displayed telling you to set them up or wait for the DHCP to serve them to the unit. Tap **OK** to close this dialogue box IQView will display an empty **Navigator Display**, goto (9), otherwise goto (11).
- 9 If IQView has been unable to connect to the IQ network because the Ethernet settings have not been defined you have two options:
 - If the settings are to be obtained automatically (from DHCP server, or auto negotiated) after about 1 minute you should tap **IQView**, then tap **Settings** and then tap **Network (Ethernet)** to display the **Network (Ethernet)** dialogue box, and then tap **Details**. A dialogue box is displayed containing the settings. If these are correct reinitialise the connection as described in the 'Reinitialise the Site Connection' section of this manual and goto (10). If they are not correct goto (11).
 - If the settings are to be defined manually you should set them up as described in the 'Set up Ethernet Settings' section of this manual and then goto (10).
- 10 Once connected to the IQ network IQView will attempt to find its own Lan number (from an INC). If successful, it will try to learn the internetwork and then display the **Learn Entire Site** dialogue box.




- Tap **Yes** to learn all the Lans. Tap **No** to continue without learning the Lans.
If a selection is not made after a short period IQView will learn the Lans. If you choose not to learn the Lans they must be learnt later either manually as described in the 'Learn all the Lans' section of this manual or the next time IQView is powered up.
- 11 Once IQView has been powered up the **Navigator Display** is displayed, if users are disabled, or if users are enabled the **Log In Display** will be displayed.
 - If a successful connection has been made you can continue to view information on the system and finish engineering IQView.
 - If a connection has not been made you should correct the problem by changing the IQView's settings, or correcting the fault if it lies with another device and then power up IQView again.

5.2.3.1 Restart IQView

If required IQView can be powered down and the powered up again. IQView will restart following the procedure described in the 'Power up IQView' section of this manual.



To restart IQView:

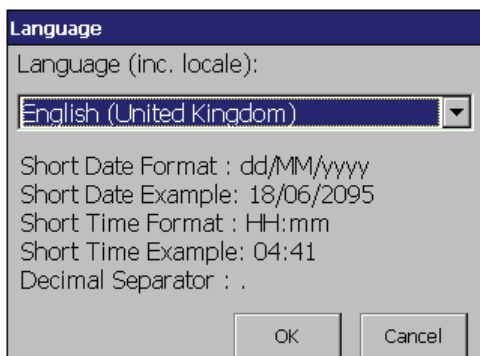
- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap **IQView** tap **Restart** and then tap **Device (Soft Reset)**.

5.2.4 Set up the Language

It is necessary to specify the language that IQView is to use. This not only defines the language but the format of the locale settings.

To setup the language:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Ensure that the IQView has been physically connected to the network, see the supplied installation instructions for more details.
- 3 Tap  tap **Settings** and then tap **Language**. The **Language** dialogue box is displayed.





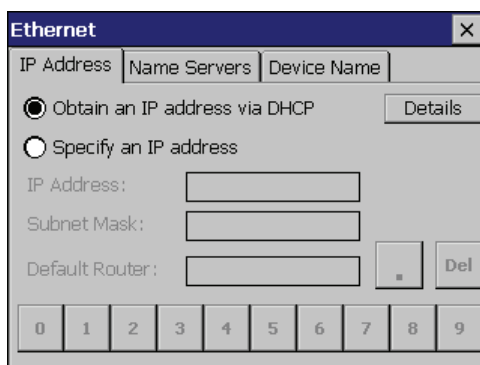
- 4 In the **Language (inc locale)** box tap the required language.
The format of the date and time, and the decimal separator that will be used is shown.
- 5 Tap **OK**.

5.2.5 Set up Ethernet Settings

If the IQView is to be connected to an Ethernet network (IQVIEW/.. only) it is necessary to specify its Ethernet settings.

To setup Ethernet settings:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  tap **Network** and then tap **Ethernet**. The **Network (Ethernet)** dialogue box is displayed.



- 3 Specify whether the Ethernet settings are to be specified manually, or obtained from a DHCP server by tapping the appropriate option to select (☉) it.

<i>Option</i>	<i>Description</i>
Obtain an IP Address via DHCP	All IP settings are obtained from the DHCP server.
Specify an IP Address	IP settings must be specified manually.

5.2.5 Set up Ethernet Settings (Continued)

4 Specify the settings as required.

Obtain an IP Address via DHCP

- Tap **Obtain an IP Address via DHCP**.

Specify an IP Address

- Tap in the **IP Address** box. The keyboard is displayed.
- Enter the IP address of the IQView by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx

- Enter the required subnet mask by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx

- Enter the IP address of the IQView's default router by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx

The default router defines the IP address of the router that is to be used as the default router. It should be set to the IP address of a router on the same subnet.

- If the names servers are to be specified tap the **Name Servers** tab,
- Tap in the **Primary DNS** box.
- Enter the IP address of the primary DNS server by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx

- Tap in the **Secondary DNS** box.
- Enter the IP address of the secondary DNS server by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx

- Tap in the **Primary WINS** box.
- Enter the IP address of the primary WINS server by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx


- Tap in the **Secondary WINS** box.
- Enter the IP address of the secondary WINS server by tapping the numbers at the bottom of the dialogue box. It must be entered in the format shown below.

xxx.xxx.xxx.xxx


- If a description of IQView that is available to other Ethernet device of the speed of the Ethernet network are to be specified tap the **Device Name** tab,
- Tap the required speed and duplex mode in the **Speed and Duplex** box.

Note that the non auto options may not operate with all types of switches.

- Tap in the **Device Name** box. The keyboard is displayed.
- Enter a name for IQView by tapping the letters on the keyboard that is displayed.

- Tap .

- Tap in the **Device Description** box. The keyboard is displayed.
- Enter a description for IQView device name by tapping the letters on the keyboard that is displayed.

- Tap .



- 5 Tap .

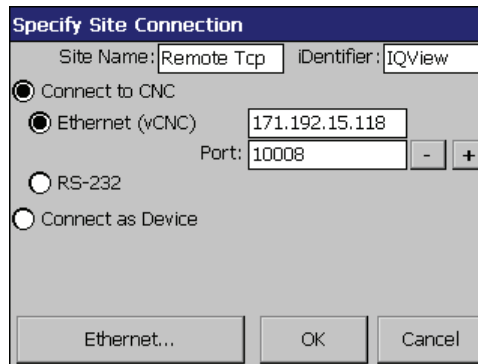
5.2.6 Set up the Site Connection



The site connection defines the way IQView connects to the IQ network. Once a successful connection is made IQView will automatically learn the structure of the internetwork. This connection will depend on the IQView option that has been purchased. IQVIEW MONO/.. can only be connected via a CNC, or a controller's local supervisor port. IQVIEW/.. can be connected in one of three ways, via a CNC/Local supervisor port, directly to the IQ system current loop network, or via Ethernet. When connecting via Ethernet the connection can be made using IQView's own virtual CNC, or a virtual CNC in another device (E.g. an IQ3 or EINC).

When IQView is powered up for the first time, it will prompt for the site connection to be set up. If the connection was not set up, or has changed, it can be defined as described below.

To setup the connection:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Ensure that the IQView has been physically connected to the network, see the supplied installation instructions for more details.
- 3 Tap  tap **Network** and then tap **Site Connection**. The **Specify Site Connection** dialogue box is displayed.



- 4 Tap in the **Site Name** box. The keyboard is displayed.
- 5 Enter the site name by tapping the letters on the keyboard that is displayed.
- 6 Tap .
- 7 Tap in the **Identifier** box. The keyboard is displayed.
- 8 Enter the identifier by tapping the letters on the keyboard that is displayed.
- 9 Tap .
- 10 Specify the details of the connection. This depends on the option of IQView that is being installed

IQVIEW MONO/..

- In the **Baud Rate** box tap the baud rate for communications between IQView and the CNC/Local Supervisor port from. The baud rate must match the value set on the device. When connection is made directly, this should be 19K2 for IQ3 controllers, and 9600 for pre IQ3 controllers.

IQVIEW/..

- Tap either **Connect to CNC** or **Connect as Device** to specify whether IQView is to connect to a CNC, or connect directly to the network as a device. The table below explains the options.

<i>Option</i>	<i>When to use</i>
Connect to CNC	Connection is to be made to a virtual CNC in an EINC or IQ3. Or Connection is to be made to a CNC or a controller's local supervisor port.
Connect as Device	Connection is to be made using the current loop Lan Or Connection is to be made to an Ethernet Lan using IQView's own virtual CNC

5.2.6 Set up the Site Connection (Continued)

The dialogue box will change to allow the parameters required for the connection.

- Specify the physical connection that is being used by tapping the appropriate option. The available options depend on the option selected in previously.

<i>Option selected</i>	<i>Physical Connection Options Available</i>	<i>When to use</i>
Connect to CNC	Ethernet (VCNC)	Connection is to be made to a virtual CNC in another device.
	RS-232	Connection is to be made to a CNC or a controller's local supervisor port.
Connect as Device	Current Loop Lan	Connection is to be made using the current loop Lan.
	Ethernet Lan	Connection is to be made to an Ethernet Lan using IQView's own intergral CNC.

For Ethernet (VCNC) tap in the box next to Ethernet (VCNC) to display the keyboard, and enter the host name or IP address of the device containing the virtual CNC to be used to connect to the IQ network. If the system is using automatic addressing the device must be specified using a host name. The IP address must be entered in the format 'xxx.xxx.xxx.xxx'. Then tap in the **Port** box to display the keyboard, and enter the port number of the virtual CNC to which IQView is to connect.

For RS-232 tap in the **Port** box to display the keyboard, and enter the number of the com port. Then tap the baud rate for communications between IQView and the CNC/Local Supervisor port in the **Baud Rate** box. The baud rate must match the value set on the device. When connection is made directly, this should be 19K2 for IQ3 controllers, and 9600 for pre IQ3 controllers.

For Current Loop Lan tap the network address for the IQView from the list in the **Node** box. Then tap the baud rate for communications on the network from the list in the **Baud Rate** box. The baud rate must match the value set on the device.

For Ethernet Lan tap the Lan number for the IQView from the list in the **Lan** box. Then tap the network address for the IQView from the list in the **Node** box. If the Lan is using a non-standard UDP port tap in the **UDP** box to display the keyboard and enter the UDP port being used for communication on the Lan by tapping the numbers on the keyboard.

If an Ethernet connection has been specified (Ethernet (VCNC) or Ethernet Lan) the Ethernet settings must be set up as described in the 'Set up Ethernet Settings' section of this manual. Clicking on Ethernet will take you straight to the required dialogue box.

11 Tap **OK**.



IQView will now attempt to connect to the network if it is successful it will learn the internetwork structure. It is then necessary to discover the devices on the Lans as described in the 'Learn all the Lans' section of this manual. Reinitialising the site connection will force IQView to relearn the internetwork structure without the need to change the site connection.




5.2.6.1 Check the Site Connection is Working

If you suspect there may be a problem with the IQView's connection to the network it is possible to check whether the connection is working correctly.

To check the site connection:

- Look at the icon in the bottom right of the IQView display which indicates the state of the connection:



<i>Icon</i>	<i>Description</i>
	Communications OK
	Communications not working correctly

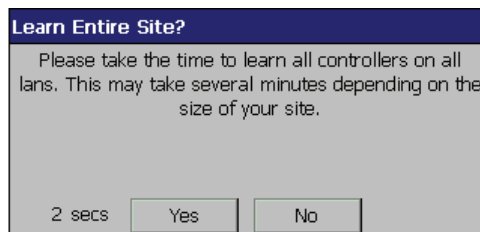
- If the communications are OK but there still seems to be a problem tap . This will cause the IQView to check the network a successful test is indicated by  being displayed for about 1s. If  is not displayed there could be a problem with the connection and you should check the connection details, as well as the physical connection to the network.

5.2.6.2 Reinitialise the Site Connection

If required the connection to the site can be reinitialised. This causes IQView to relearn the internetwork structure without the site connection being changed.

To reinitialise the site connection:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  and from the displayed menu tap **Re Int Connection**. IQView will learn the internetwork structure. Once this is complete, the **Learn Entire Site** dialogue box is displayed which enables the learning of Lans to be cancelled.






- 3 Tap **Yes** to learn all the Lans. To continue without learning the Lans tap **No**. If a selection is not made after a short period of time IQView will learn the Lans. If you choose not to learn the Lans they must be learnt later either manually as described in the 'Learn the all the Lans' section of this manual or the next time IQView is powered up.

5.2.7 Learn Lan Information

5.2.7.1 Learn all the Lans

To enable information from controllers to be available to IQView it is necessary to discover the devices on all of the Lans on the site this is done by learning all the Lans. When it powers up IQView prompts for the Lans to be learnt after it has learnt the internetwork structure, if they were not learnt then or have changed, they can be learnt as described below.

To learn all the Lans:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Set up the site connection as described in the 'Set up the Site Connection' section of this manual.
- 3 Tap  to highlight the site.
- 4 Tap  and from the displayed menu tap **Learn Site (All Lans)**. IQView will now learn the site.



Note that this operation may take several minutes on a large site.

Once IQView has learnt all the Lans, the structure will be displayed in the **Navigator Display**. The structure will only display controllers on the network. If the network contains any IQL controllers, it displays the Lan number and virtual address.

5.2.7.2 Learn an Individual Lan

If required the devices on an individual Lan can be learnt. This is useful if devices have been added or removed from a Lan since it was learnt.

To learn an individual Lan:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Set up the site connection as described in the 'Set up the Site Connection' section of this manual.
- 3 tap the Lan that is to be learnt to highlight it.
- 4 Tap  and from the displayed menu tap **(Re) Learn**. IQView will now learn the Lan.

Note that when a Lan that has not been learnt is tapped it is automatically learnt.



5.2.8 Set up the Navigator Display

The **Navigator Display** must be set up so that all controllers on the system to which IQView is to have access are available. This requires the removal of controllers that are not to be accessed by IQView from the tree, and the addition of controllers that are to be accessed but are not in the Navigator (E.g. the Lan is broken).

5.2.8.1 Add a Controller

It is possible to add a controller to the **Navigator Display** if for example, the Lan it is on is broken, it has been deleted by mistake, or a new controller has just been added and you don't want to relearn the Lan.

To add a controller:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap a Lan.
- 3 Tap  and from the displayed menu tap **Add IQ or Lan**. The **Add IQ to Lan** dialogue box is displayed.





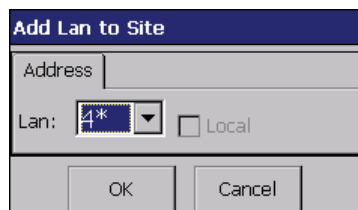
- 4 In the **Lan** box tap the Lan number of the controller.
- 5 In the **Os** box tap the network address of the controller.
- 6 Tap **OK**. The controller will be added.

5.2.8.1 Add a Lan

It is possible to add a Lan to the **Navigator Display** if for example, it has been deleted by mistake.

To add a controller:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  and from the displayed menu tap **Add IQ or Lan**. A dialogue box is displayed.
- 3 In the **Lan** box tap the Lan number of the controller. Unused Lan numbers are indicated by an asterisk(*). The dialogue box will appear as shown.




- 4 Tap **OK**. The Lan will be added.


5.2.8.2 Delete a Controller

It is possible to remove a controller from the **Navigator Display**. This prevents IQView from accessing the controller.

To delete a controller:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Navigate down the tree structure to locate the required controller by tapping '+' to expand the Lan containing the required controller.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.


- 3 Tap the required controller to highlight it a menu is displayed.
- 4 Tap  and then **Remove Current Lan** from the displayed menu.

Note that once a controller has been removed it can be added again manually, or by relearning the Lan.


5.2.8.3 Delete a Lan

It is possible to remove a Lan from the **Navigator Display**. This prevents IQView from accessing controllers on that Lan.

To delete a Lan:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Navigate down the tree structure to locate the required Lan by tapping + to expand the **Navigator**.

For more details of locating controllers see the 'Navigate to a Controller' section of this manual.

- 3 Tap the required Lan to highlight.
- 4 Tap  and from the displayed menu tap **Remove Current Node**.

5.2.9 Configure the Users

If users are to be set up to control access to IQView, it is necessary to configure the users. If users are not required, they can be disabled which means that anybody using IQView will have full access to the system. When users are enabled, the user must log in before they can access IQView. What they can access depends on their access rights. You should have already decided whether users are required, and if so what users are required, and what access they will required during the planning stage of the project.

To configure the users:

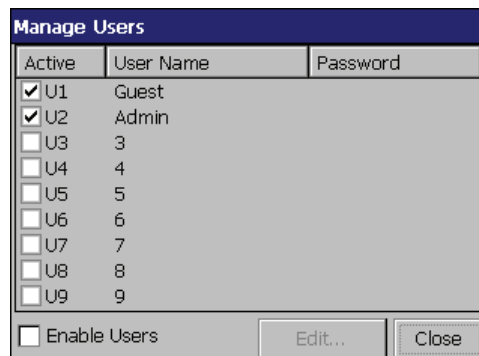
- 1 Enable IQView security as described in the 'Enable IQView Security' section of this manual.
- 2 Activate the required users as described in the 'Activate a User' section of this manual.
- 3 Edit the users to define their access rights as described in the 'Edit a User' section of this manual.

5.2.9.1 Enable IQView Security

When IQView is shipped its security is turned off. Therefore if security is required it must be enabled.

To enable security:

- 1 Tap  tap **Settings** and then tap **Users**. The **Manage Users** dialogue box is displayed.



- 2 Select the **Enable Users** check box.
- 3 Tap **Close**.

To disable the security log in and repeat the process above so that the **Disable Users** check box is selected ()

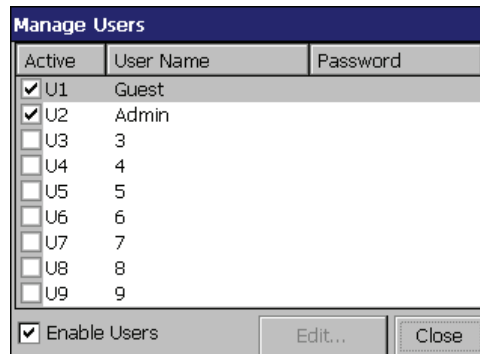
5.2.9.2 Activate a User

IQView can have up to nine different users each with different access rights. Once IQView's security has been enabled, it is necessary to activate the required users. When the security is enabled the 'Admin' and 'Guest' users are activated.

To activate a user:

- 1 Ensure that IQView's security is enabled.
- 2 Log in.
- 3 Tap **IQView** tap **Settings** and then tap **Users**. The **Manage Users** dialogue box is displayed.
- 4 Select the check boxes next to the users that are to be activated.
- 5 Tap **OK**.

To deactivate a user repeat the process above to clear () the check boxes next to the users that are no longer required.



Note that it is not possible to deactivate the Guest and Admin users other than by disabling the IQView security. When IQView is powered up the guest user will automatically be logged on.

5.2.9.3 Edit a User



When the security is enabled the **Admin** and **Guest** users are activated. The access rights of these users are defined in the table below but can be changed if required.

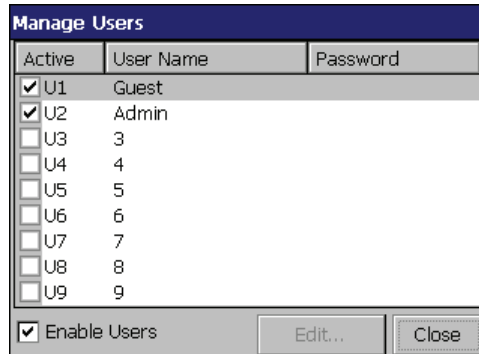
	<i>Guest User</i>	<i>Admin User</i>
Username	Guest	Admin
Password	N/A	-
PIN	0000	0000
Timeout	600	600
Full Tree	Full	Full
IQView Menu	No	Yes
Site Menu	Yes	Yes
Lan Menu	Yes	Yes
Directory Modules	Yes	Yes
Time & Zones	Yes	Yes
Time Module	Yes	Yes
IQ Alarms	Yes	Yes
Modules	Yes	Yes
Add/Remove Nodes	Yes	Yes
Enter PIN	Yes	Yes
Acknowledge Alarms	Yes	Yes
Delete Alarms	Yes	Yes
Graph Options	Yes	Yes

It is possible to edit a user to change the access rights. If editing the Guest (U1) user it is not possible to specify a password. If editing the Admin (U2) user it is only possible to change the username, password, PIN and timeout, other parameters cannot be changed to ensure that there is always a user with full access rights.

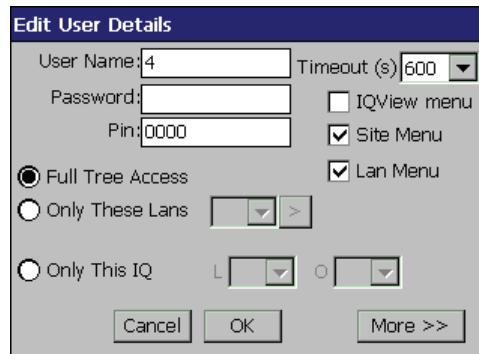
5.2.9.3 Edit a User (Continued)



To edit a user:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  tap **Settings** and then tap **Users**. The **Manage Users** dialogue box is displayed.



- 3 Tap the user that is to be edited. It will be highlighted.
- 4 Tap **Edit**. The **Edit User Details** dialogue box is displayed.



- 5 Tap in the **User Name** box. The keyboard is displayed.
- 6 Enter the username by tapping the letters on the keyboard.
- 7 Tap .
- 8 Tap in the **Pin** box. The keyboard is displayed.
- 9 Tap . The keyboard changes to enable a number to be entered.
- 10 Enter the PIN sent to controllers to authorise an adjustment by tapping the number on the keyboard.

Note that the PIN specified for the Guest and Admin users when they are first activated is '0000'. Therefore if there are controllers on the system with PINs of '0000' it is important to ensure that the PIN for the Guest and Admin users is correctly set up.

- 11 In the **Timeout (s)** box tap the required time in seconds for which IQView is left unused before the user will be logged off from the list.

*Note that if editing the Guest user it is possible to specify that the user never timesout by selecting **Never**.*

- 12 Specify whether the user has access to the IQView menu by tapping the **IQView menu** check box. Checked () means the user has access.
- 13 Specify whether the user has access to the Site menu by tapping the **Site menu** check box. Checked () means the user has access.
- 14 Specify whether the user has access to the Lan menu by tapping the **Lan menu** check box. Checked () means the user has access.
- 15 Specify which controllers in the **Navigator Display** the user has access to by tapping the appropriate option.

Option	Description
Full Tree Access	Access to any controller in the Navigator Display
Only These Lans	Access to the specified Lans
Only this IQ	Access to the specified controller

5.2.9.3 Edit a User (Continued)

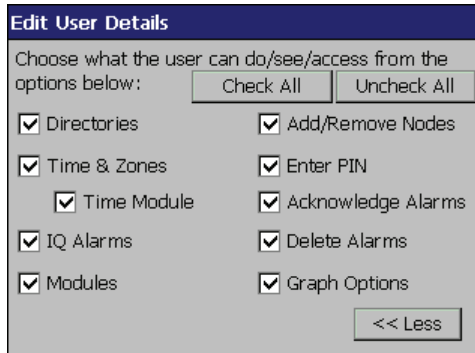
Only These Lans

- Tap each Lan to which access is required in the **Only These Lans** box and then tap >.


Only this IQ

- Tap the Lan containing the controller from the list in the **L** box.
- Tap the network address of the controller from the list in the **O** box.

16 Tap **More** >>. The dialogue changes.



17 Specify what the user can do/see/access by tapping the required check boxes. Checked () indicates that the option is selected. The table below lists the different options.

<i>Option</i>	<i>Description</i>
Directories	The user will have access to directories from the IQ menu.
Time & Zones	The user will have access to timezones from the IQ menu.
Time Module	The user will see information about the controller's time module.
IQ Alarms	The user will have access to IQ alarms from the IQ menu.
Modules	The user will have access to sensors, drivers, digital inputs, switches, and knobs from the IQ menu.
Add/Remove Nodes	The user will be able to add or remove controllers from the Navigator Display.
Enter PIN	The  icon will be displayed in the status bar enabling the user to change the PIN.
Acknowledge Alarms	The user will be able to acknowledge alarms.
Delete Alarms	The user will be able to delete alarms.
Graph Options	The user can specify whether a precision or compact log is retrieved, whether the time from IQView is used, and the number of points when a graph is displayed.



18 Tap << **Less**.

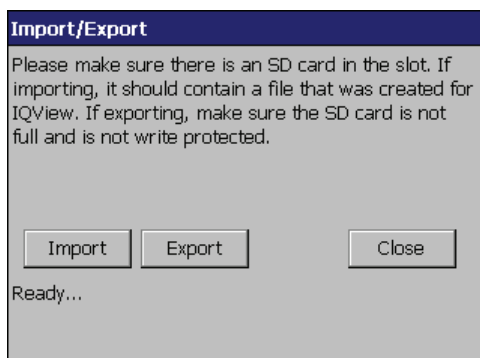
19 Tap **OK**.

5.2.9.4 Export Users

If required details about users can be exported to an SD memory card. This enables the users to be used in another IQView. It is not possible to export users from IQView version 1.1 or greater to IQView version 1.0, it is possible to export user from IQView version 1.1 greater to an IQView of version 1.1 or greater

To export user details:

- 1 Insert the SD memory card into the SD slot on IQView.
- 2 If  is enabled, or the **Log in Display** is visible log in.
- 3 Tap  tap **SD Card** and then tap **Import/Export User Data**. The **Import/Export** dialogue box is displayed.





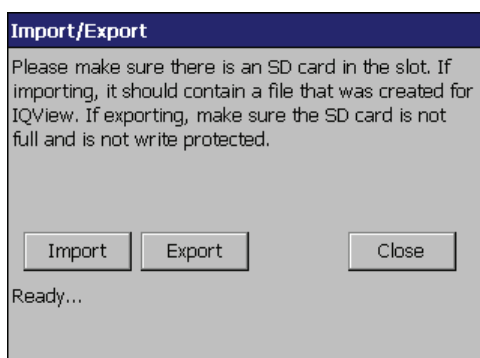
- 4 Tap **Export**. The user details will be exported to the SD card.

5.2.9.5 Import Users

If required details about users can be imported from an SD memory card. This enables the users from another IQView to be used.

To import user details:

- 1 Insert the SD memory card into the SD slot on IQView.
- 2 If  is enabled, or the **Log in Display** is visible log in.
- 3 Tap  tap **SD Card** and then tap **Import/Export User Data**. The **Import/Export** dialogue box is displayed.





- 4 Tap **Import**. The user details will be imported from the SD card.

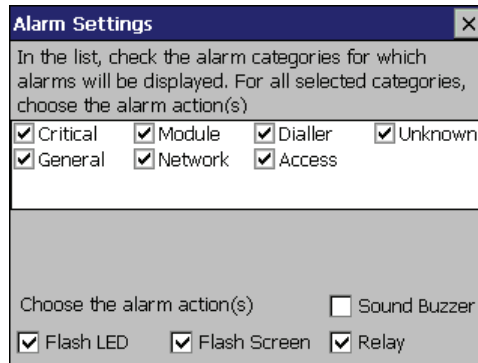
Note that it is necessary to log off before the new user details will take effect.

5.2.10 Configure Alarm Handling

Configuring the alarm handling is important because one of the functions of the IQView is to report when the system is not working correctly, or there is a fault. During the planning stage of the project you should have decided on what alarms are to be received, and the action that is to occur.

To configure alarm handling:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  tap **Settings** and then tap **Alarms**. The **Network (Ethernet)** dialogue box is displayed.




- 3 Specify type of alarms that will be displayed in the **Alarms Display** by tapping the appropriate check boxes at the top of the dialogue box. Checked () indicates the alarm will be displayed and unchecked () indicates that the alarms will not be displayed. The different options are explained below.

Option	Description
Access	All alarms (DRAC, DRFS, DRFC, DRHS, DRHC, DROSS, DROC, DRSC, DRVS, LPHI, IPHI, IPTP, ODOF, and ORON) sent from access controllers on the network.
Critical	All critical alarms (SCRI, and CCRI) sent from other devices on the network.
Dialler	All dialler (BTNR, ADNR, ANOL, LINR, MONR, and PGNV) alarms sent from other device son the network.
General	All general alarms (CONL, FDRT, FPIA, FPRM, FRAM, FRTC, FSWR, HELP, FTKA, STOR, LMWG, FCAM, LFWG, FARC, FTIM, and FTKP) sent from other devices on the network.
Module	All alarms (READ, O/K, LOW, CLOW, HIGH, CHIH, OUTL, COUT, SDGT, CDGT, MINT, CMNT, DI=0, CDI0, DI=1, CDI1, PVFL, CPVL, SDEV, or CSDV from modules sent from other devices on the network.
Network	All network (DVDD, DVOK, NKBK, NKOK, and NKCH) alarms sent from other devices on the network.
Unknown	Any alarms that are not covered by the other alarm categories.

- 4 Specify the actions that occur when an alarm occurs by tapping the appropriate check boxes at the bottom of the dialogue box. Checked () indicates the alarm will be displayed and unchecked () indicates that the alarms will not be displayed.




Action	Description
Flash LED	The power/alarm LED will be turned on and flash until the alarm is acknowledged.
Flash Screen	The screen will flash until the alarm is acknowledged.
Relay	The relay output will be opened until the alarm is acknowledged.
Sound Buzzer	A buzzer will sound until the alarm is acknowledged.


- 5 Tap .
- 6 Test the alarm action is as expected by turning the alarm action on as described in the 'Turn the Alarm Action ON' section of this manual.

5.2.10.1 Turn the Alarm Action ON

If required the alarm action can be turned on to test it is as expected.

To turn the alarm action ON:



- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  to display the **Alarms Display**.
- 3 Tap  and from the displayed menu tap **Turn Alarm On**.

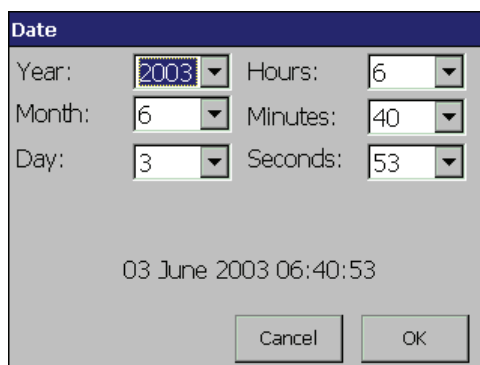
To turn the alarm action off tap .

5.2.11 Set up the IQView Time

The IQView has its own real time clock. Therefore, it is important that the time is correctly set up.

To setup the time:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Ensure that the IQView has been physically connected to the network, see the supplied installation instructions for more details.
- 3 Tap  tap **Settings** and then tap **Date and Time**. The dialogue box is displayed.





The image shows a 'Date' dialog box with a dark blue header. It contains six dropdown menus for setting the date and time: Year (2003), Month (6), Day (3), Hours (6), Minutes (40), and Seconds (53). Below the dropdowns, the current date and time are displayed as '03 June 2003 06:40:53'. At the bottom, there are 'Cancel' and 'OK' buttons.

- 4 If IQView is to obtain its time and date information from a timemaster tap the **Listen to Timemaster** check box, and goto (11) Checked (indicates that the option is selected. If IQView is to determine its own date and time information goto (5).
- 5 In the **Year** box tap the required year.
- 6 In the **Month** box tap the required month.
- 7 In the **Day** box tap the required day of the month.
- 8 In the **Hours** box tap the required hour.
- 9 In the **Minutes** box tap the required minutes.
- 10 In the **Seconds** box tap the required seconds.
- 11 Tap **OK**. The changes will be saved.

5.2.11.1 Find the Timemaster

If required the timemaster on the IQ system can be located. This allows the IQView sync with timemaster function see the 'Synchronise the Controller Time's section of this manual to be used more easily.



To find the timemaster:

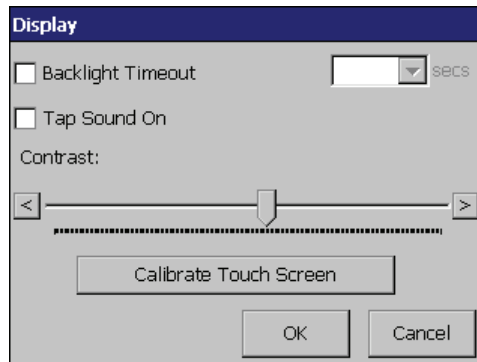
- 1 If  is enabled, or the **Log in Display** is visible log in as described in the 'Log In' section of this manual.
- 2 Tap  and from the displayed menu tap **Find Timemaster**. IQView will search the IQ system for the timemaster. If one is found it is selected in the **Navigator**, if one is not found a message is displayed.

5.2.12 Set up the IQView Display

The IQView's display can be adjusted to ensure that it is visible from the position it has been mounted, and to ensure that the screen responds correctly when touched by the user.


To setup the display:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  tap **Settings** and then tap **Display**. The **Display** dialogue box is displayed.



- 3 Specify whether the backlight is on permanently, or switches off after a specified period by selecting the **Backlight Timeout** check box. Selected () indicates the backlight will turn off, and cleared () indicates that the backlight will remain on permanently.



Caution having the backlight on permanently will reduce the life of the backlight.

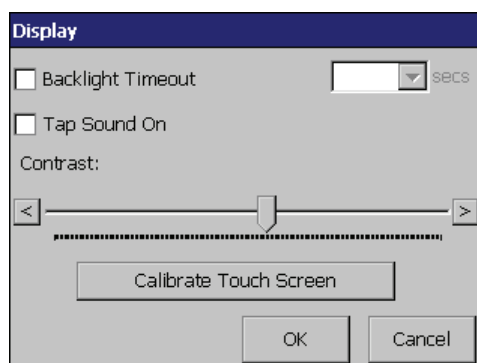
- 4 If the **Backlight Timeout** box has been selected specify the period after which the backlight will be switched off by tapping the required time in the **secs** box.
- 5 Specify whether a sound is made when the screen is tapped by selecting the **Tap Sound On** check box. Selected () indicates the sound is on, and cleared () indicates that the sound is off.
- 6 Adjust the contrast so that the screen is visible at the required viewing angle by touching the  and dragging it left/right as required. Tapping < or > will move the slider to the left or right.
- 7 Tap **OK**.

5.2.12.1 Calibrate the Screen

The IQView's display can be recalibrated if necessary.

To recalibrate the screen:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  tap **settings** and then tap **Display**. The **Display** dialogue box is displayed.



- 3 Tap **Calibrate Touch Screen**.
- 4 Follow the instructions on the screen.
- 5 When new calibration settings have been stored the IQView will return to the **Display** dialogue box, tap **OK**.

5.2.13 Set up the Remote Devices Table



If required the IQView is connected to an Ethernet network, and is to build an internetwork with other IQ system devices across routers the remote devices table must be set up. IQView does not provide a user interface for setting up the remote devices table. The setup of the remote devices table for IQView is carried out using IPTool. For details of doing this see the IPTool Manual (TE200638).

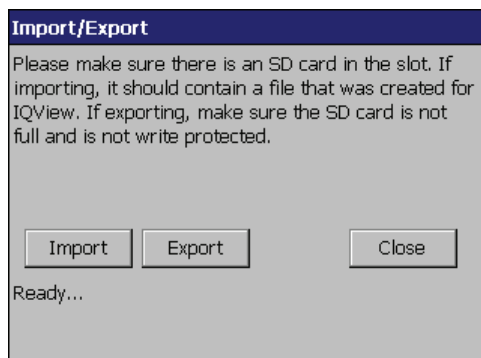
It is recommended that the remote devices table be placed in all devices on the network and include the details of at least two devices from each subnet to be linked by the internetwork. For increased reliability details of additional devices should be specified. If automatic addressing is being used the devices must be specified using host names, and if manual addressing is being used the list should contain the devices with the lowest IP addresses.

5.2.14 Export IQView Configuration

If required the IQView's configuration can be exported to an SD memory card. This enables settings to be backed up, or used in another IQView. Information about the network connection, site connection, alarm configuration, and display language are exported.

To export the configuration:

- 1 Insert the SD memory card into the SD slot on IQView.
- 2 If  is enabled, or the **Log in Display** is visible log in.
- 3 Tap  tap **SD Card** and then tap **Import/Export Settings**. The **Import/Export** dialogue box is displayed.





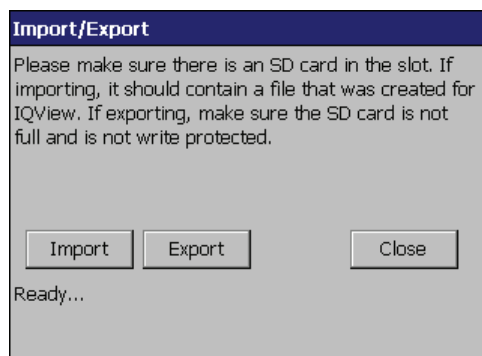
- 4 Tap **Export**. The details will be exported to the SD card.

5.2.15 Import IQView Configuration

If required the IQView's configuration can be imported from an SD memory card. This enables settings to be restored in the event of failure, or settings from another IQView used. Information about the network connection, site connection, alarm configuration, and display language are imported.

To export the configuration:

- 1 Insert the SD memory card into the SD slot on IQView.
- 2 If  is enabled, or the **Log in Display** is visible log in.
- 3 Tap  tap **SD Card** and then tap **Import/Export Settings**. The **Import/Export** dialogue box is displayed.





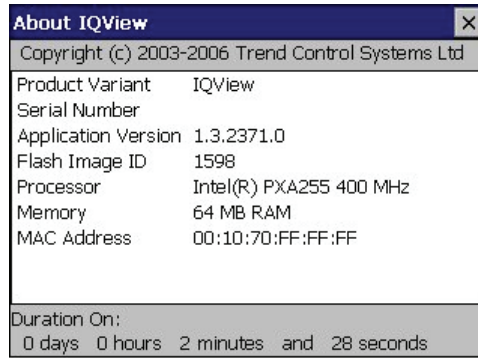
- 4 Tap **Import**. The details will be exported to the SD card.


5.2.16 Display IQView Information

If required the serial number, software versions, product variant and time running for IQView can be displayed.

To display IQView information:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  and from the displayed menu tap **Info** and then tap **About**. The **About IQView** dialogue box is displayed.





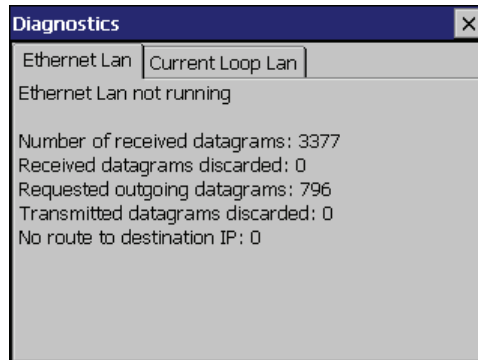
- 3 Tap  to close the dialogue box.


5.2.17 Display Diagnostic Information

If required diagnostic information for IQView can be displayed.

To display diagnostic information:

- 1 If  is enabled, or the **Log in Display** is visible log in.
- 2 Tap  and from the displayed menu tap **Info** and then tap **Diagnostics**. The **About IQView** dialogue box is displayed.



- 3 Tap  to close the dialogue box.

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APPENDICES

A1 IQVIEW TEXT COMMS PARAMETERS

IQView will respond to text comms requests for address module and time module, however values cannot be changed using text comms.

A1.1 Address Module

The address module stores information relating to communications for a particular device Its text comms identifier for the IQView’s address module is R.

It has the following parameters which are defined in different areas of IQView:

<i>Parameter</i>	<i>Description</i>	<i>ID</i>
Application Build Number	The application version number of the IQView. E.g. 1.2.x.0 where x is the number of days since Jan 1st 2000 and the other 3 digits are the version as reported by w-comms and R(C)	B
Bootloader Version	String containing the unit type, issue, and build date in mm dd yyyy UK format of the bootloader.	c
Default Router	The IP address of the router to which messages are sent if the destination address is not on the local subnet as entered or obtained by DHCP. It should be set to the IP address of a router on the same subnet as the controller.	r
Display Language	The language used by the IQView.	P
Identifier	30-character label for the IQView. Defaults = IQView	D
IP Address	The IP address of the IQView as entered or obtained by DHCP The IP address for each controller must be unique to avoid address clashes.	i
MAC Address	The MAC address of the IQView	s
Product Code	The product code of the IQView	M
Subnet Mask	The subnet mask of the IQView as entered or obtained by DHCP. The subnet mask must be the same for all devices not separated by routers that are to build Lans or an internetwork. This ensures that they are on the same subnet.	n
Version	String containing the unit type, issue, and build date in mm dd yyyy UK format.	C

A1.2 Time Module

The time module is a module within IQView that stores information about the current date and time.

It has the following parameters that are defined in different areas of IQView:

<i>Parameter</i>	<i>Description</i>	<i>ID</i>
Year	The last 2-digits of the current year (1-9999)	Y
Month	The current month. Range = 1 to 12 Where 1 specifies January.	M
Day	The current day Range = 1 to 31 of the month.	D
Hours	The current hours value. Range = 0 to 23	H
Minutes	The current minutes value. Range = 0 to 59	N
Seconds	The current seconds value. Range = 0 to 59	C
Day of week	The current day of the week. Range = 1 to 7 Where 1= Monday, 7=Sunday	W

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A2 DISPOSAL

COSHH (Control of Substances Hazardous to Health - UK Government Regulations 2002) ASSESSMENT FOR DISPOSAL OF DISPLAY. No parts affected.

RECYCLING.

All plastic and metal parts are recyclable. The printed circuit board may be sent to any PCB recovery contractor to recover some of the components for any metals such as gold and silver.

**WEEE Directive :**

At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre.

Do not dispose of with normal household waste.

Do not burn.

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