

# **FIRECLASS FC700 Series Panels**

**From Firmware version V31.0**

**GUI version V3.3**

**User Manual**

**120.515.871\_FC-FC700-P-U**

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# 1 Introduction

This user manual is a guide on how to use the FireClass FC700 series panels Graphical User Interface (GUI) to control or monitor a FireClass fire alarm system. The system may include FireClass panels and repeaters. Note that the appearance of your GUI may differ slightly to the figures in this guide due to software updates.

This guide is aimed at users of FireClass FC700 series panels who have already received training. It is also for trained service engineers who have a higher level access login. For more information, refer to the "Engineering Functions" section.

You interact with the FireClass FC700 series panel using the GUI, as shown below. Most of the areas are touch sensitive, not just the keys.







- ① Screen Title      The **blue** background changes to **red** for a fire or **yellow** for fault warning conditions.
- ② LEDs              Various LEDs indicate conditions including 'fire', 'disabled' or 'faulty' – see "LED Details" below.
- ③ Silence Sounders      Silences the sounders (Keyswitch protected – see "Key plus Software Login" on page 9.)
- ④ Alarm Cycle        Cycles through any fire alarms, showing details.
- ⑤ Reset              Use this after a fire situation has been resolved. Keyswitch protected – see "Key plus Software Login" on page 9.
- ⑥ Events Summary    Alerts you to any abnormal conditions you need to be aware of. Touch here to further investigate and take possible action.







- ⑦ Home Returns you to the starting screen for navigating the menus (or the 'View Fires' screen).
- ⑧ Back Cancels the last screen touch and returns you to the previous screen.
- ⑨ Information Displays background information on the system.
- ⑩ Silence Buzzer Silences the panel's internal buzzer.
- ⑪ RFID sensor If you have an RFID card, present it here to log in – see "RFID" on page 9.
- ⑫ USB port cover Open this to access the USB port and the key receptacle.

### 1.1 LED Details

The LED colours in the GENERAL and PANEL areas of the GUI are as follows:

-  Not Activated: OK.
-  Green: OK (the 'Power On' LED should always be green).
-  Red: A critical problem or a fire alarm condition. Following a red LED, the Control and Indicating Equipment (CIE) enters a fire alarm state.
-  Yellow: A problem or condition that is less serious than red, but should still be investigated (typically a fault) as it may be critical to the functioning of the CIE.

Most of the LEDs have a text label. LEDs with a symbol or number, are explained below.






-  There is a fault with Sounders, Signalling or Protection (the LED appears in each of these areas of the GUI).
-  There is a disablement of the Sounders, Signalling or Protection (the LED appears in each of these areas of the GUI).
-  The sounders have activated. This LED appears in the Sounders area of the GUI.
-  Fire Brigade Signalling has activated. This LED appears in the Signalling area of the GUI.
-  Protection equipment has activated, such as a door control. This LED appears in the Protection area of the GUI.
-  There is a fire in the labelled zone.



**Note: Slight differences may occur between the screens which the users see and what appears in this manual due to software updates.**

### 1.2 Additional Indications

Below are more details on other symbols which might feature on the GUI.

-  / This icon changes as an acknowledgement that you are touching the panel.
-  There is a fire alarm.
-  There is a fire alarm.
-  Fire Brigade Signalling has activated.
-  The control panel is busy processing.
-  Walk Test is active. See p 9.
-  The extinguishing system has activated.
-  There is a fault in the extinguishing system.
-  A user is logged on.



A user is logged on at the 'Commissioning' access level. (Only service personnel have access to this level. For more information, refer to the "Engineering Functions" section).



**Note: Some functions described in this manual may not be available in certain software versions or FireClass Express templates.**

## 2 User Interaction

The FireClass GUI provides a modern interface with standard swipe gestures and scroll bars for navigating lists. Some information, such as point information is displayed as a series of horizontally arranged cards as shown in Figure 1. To move between cards, you can swipe left or right or you can use the scroll buttons.

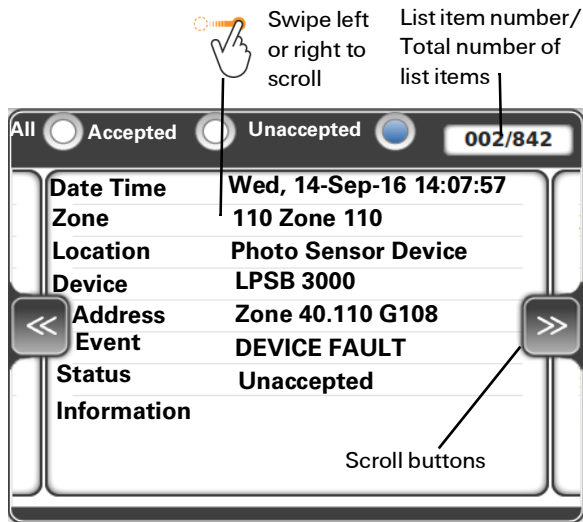


Fig. 1: Horizontal Lists

Some information is listed vertically. You can swipe these lists up or down or by using the scroll button, as shown in Figure 2.

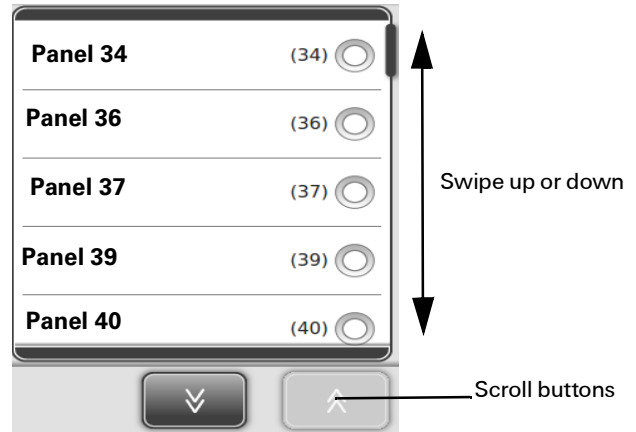


Fig. 2: Vertical Lists

You can also access the Events Summary screen for each group, including General, Panel, Sounders, Signalling and Protection, with one click by touching the LED groups on the right side of the touch screen.

## 3 Fire Alarm

When a fire alarm is triggered, the red **FIRE** LED and buzzer activate as the primary fire alarm indication. The information displayed in Figure 3 will then appear on the screen.

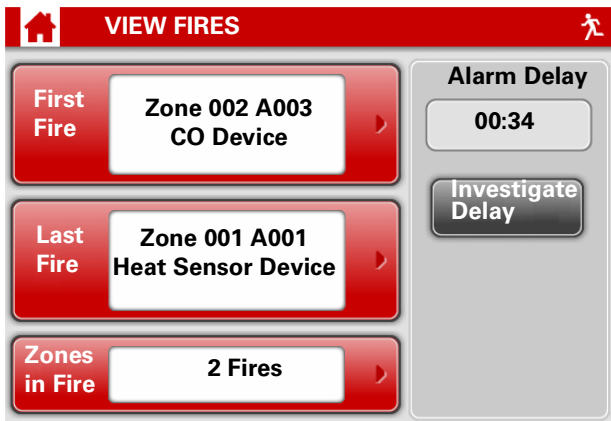


Fig. 3: GUI in Fire Alarm

Detailed Fire information is displayed indicating the origin and spread of fire:

- The 'First Fire' sub-window shows the first fire to occur, with details of the zone number and description, and the point address.  
The 'Last Fire' sub-window shows information on the latest zone to enter alarm, with details of the first fire detected within that zone.
- The number of alarms is displayed at the bottom in the fire window.

In addition:

- The **SOUNDERS-ACTIVATED** LED lights.
- The **SIGNALLING-ACTIVATED** LED may light (see the section "Alarm Operator Actions").

### 3.1 Additional fire alarm information

For additional information press the 'First Fire' or 'Last Fire' sub-window of the Fire Alarm screen (see Figure 3).

The additional information includes details about the point in alarm and other alarms within that zone.

The view can be switched between 'Fires in Zone' to display the points in alarm in that zone, or 'Zones in Fire' to display the zones in alarm.

Press the Information button to see a zonal image configured for the zone in alarm.

### 3.2 Alarm Operator Actions

In an alarm situation, follow the local site procedures.

In Day mode you can delay the fire brigade signalling. This gives you time to investigate the alarm, and cancel the signalling if you discover that the alarm is a false one.

However, in the following circumstances, there is no delay option, and the signalling immediately activates:

- Night mode is active.
- A call point was activated.
- There is a sounder fault.



#### DANGER

**In an alarm situation, inappropriate use of the panel functions may lead to death, serious injuries or damage to property.**

**You must ensure you use the appropriate local site procedures.**



#### DANGER

**When investigating an area of a building where a CO detector has raised an alarm, there is a particular danger of fires not being detected by the investigating person.**

**This is because CO detectors are liable to raise an alarm earlier than other types of detector, and before the fire is visible.**

**You should take care in your investigation, and not clear an area as being safe until you are absolutely sure.**

### 3.3 Alarm Warnings

Depending on the configuration, the panel may respond in stages to device activations. The following messages may be displayed in the 'Events Summary' window on the Home screen:

- 'Alarm Warning' message (with the internal buzzer sounding). This occurs because the control panel has been configured for a partial alarm response if only one detector is in alarm. The panel waits for another device to alarm, before issuing an alarm.
- 'Pre Alarm Warning' message (with the internal buzzer sounding). This occurs because, for example, a detector has identified a build-up that might be the result of a fire, but the alarm threshold has not yet been reached. The panel waits for the alarm threshold to be reached, before issuing an alarm.



## 4 User Functions

The basic functions of FireClass FC700 series panels are shown in Table 1, with the corresponding 'customer login level' of each function. Functions that are restricted to commissioning and engineering access levels are described in the "Engineering Functions" section. Login levels are part of the access protection system. For more information, see the "Secure Access" section below.

Function	Minimum required access level
<b>Touch screen buttons</b>	
Silence Buzzer	No logon required [3]
Fire cycle	No logon required
Silence/Resound Sounders	Customer Operator [1]
Fire reset	Customer Operator [1]
Events summary (General Panel, Sounders, Signaling, Protection)	No logon required
<b>Essential functions available from menu</b>	
GUI test	No login required
Disable	Customer Operator 6 Customer 1 in Austrian template)
Day/Night mode	Customer Operator 1 [1]
Time/Date	Customer Operator 1
Walk test	Customer Operator 7
Event log	Customer Operator 1 [1]
Sounders On/Off	Customer Operator 1 [1]
FireClass RFID card programming	Commissioning/Engineering [2]
System Status	Customer Operator 1 [1]

Table 1: Functions and their minimum required access levels  
 [1] Or a key switch toggle, if configured in the template  
 [2] For more information, refer to the "Engineering Functions" section.  
 [3] If the keyswitch is enabled in the template, this function is available after you toggle the keyswitch

### 4.1 Secure Access

The FireClass panel functions are protected against misuse by the methods detailed in the next three sections.

#### 4.1.1 Software Login

Your user login to the panel must have a sufficient level of access to be able to use a particular function. To login, press the **Login** button on the Home screen and enter User ID and Password. The unlocked padlock icon will be displayed in the header section of the screen. To log off, press the Logout button on the Home screen.

#### 4.1.2 RFID

The FireClass panels are RFID enabled for quick login. Hold the RFID card in front of the user interface and wait for the automatic login.

The cards can be programmed using the FireClass GUI, without the need for additional hardware.

#### To program the card, follow these steps:

1. Login and press **Configure » Service » Add RFID Card**.
2. Enter the appropriate credentials for the RFID card using the numeric keypad.
3. Press **Write**.
4. Hold the RFID card to the antenna symbol on the GUI front panel.

If the write fails, a popup window is shown.

#### To test a successful write, follow these steps:

1. Logout using the button on the Home screen and then present the RFID card to the antenna symbol.
2. Present the RFID card to the antenna symbol.
3. Verify that the system login occurs.

#### 4.1.3 Key plus Software Login

For some panels, the software login is disabled until you insert a key into the FireClass GUI and turn this to **ON**. After activating the key, all features marked with [1] and [3] are available.

## 4.2 Disabling Points



### DANGER

Disabling points may lead to a fire being undetected, leading to possible death, serious injuries or damage to property, and may break compliance with EN54. **NOTE: Disabling individual sounders at Access Level 2 is not permitted by EN54-2.**

**You should only disable points with caution, and enable as soon as possible afterwards.**

The FireClass GUI provides options for disabling one or more points. To access this function, log in and from the menu, select **Tasks » Disable**.

Select the disablement method and select the various filter buttons to define the points to be disabled:

- Zone Points - Filter devices to Enable/Disable by Zone to which they belong to.
- Status - Enable/disable selected status of devices in selected zones.
- Function - Filter devices to Enable/Disable by Function (Detectors, Call points, etc).
- Devices- Filter devices to Enable/Disable by Type (850H, etc).
- Single Address - Enable/Disable device by specifying address.

Once a point is disabled, it is effectively removed from the system and cannot trigger a fire alarm. Disabling is not permanent – devices can be re-enabled.

## 4.3 Switching between Day/ Night mode

The panel may be configured with a Day Mode and a Night Mode with differing behaviour.

Some key differences between the modes are as follows:

- In Night mode, the "Investigate Delay" option is disabled (see "Alarm Operator Actions" on page 8).
- In Day mode, the detector thresholds may be a higher. This allows for day-time activities which might trigger a false alarm, such as creating dust.

To enable Day mode, login and select **Tasks » Day Night**. Choose the required mode and press **OK**.

The 'Day Mode' LED activates to indicate that the panel is in Day mode. The control panel may switch automatically between Day and Night modes based on the FireClass Express configuration.



### DANGER

Switching modes inappropriately can be dangerous.

For example, switching to Day mode at night may lead to a delay in the fire brigade attending.

**Only switch modes in accordance with local site procedures.**

## 4.4 GUI Test

The GUI test is used to test the screen, LEDs and buzzer. During the test, all LEDs, GUI pixels and the buzzer are turned on for the audio-visual check of the User Interface. A GUI test can run without a login by pressing **GUI Test** on the home screen, or by pressing **Tasks » GUI Test** when logged in.

## 4.5 System Date/Time

To change the panel's date and time, select **Configure » Settings » Date and Time**.

For a network of panels, change the time at the designated timekeeper panel. All panels on the network will then synchronise to this time.



### Head-End Systems

When a 'Head-end' system such as FCG is connected to a networked panel, it is the time keeper of the networked system. The system time cannot be changed from any other panels in the network.

## 4.6 Walk Test

The Walk Test Mode is used to test the devices without triggering a fire alarm.

To place the system into the walk test mode, login and select **Configure » Walk test**. Choose the desired selection:

- All - Enable walk test for devices of a specified type (input, detector, callpoint etc) on a specified loop.
- Zone - Enable walk test for devices of a specified type (input, detector, callpoint, etc).
- Point - Enable walk test for one specific device.
- Multi Zone - Enable walk test for a selected device type (input, detector, callpoint) across multiple zones.

Once the final filter has been selected, the Walk Summary window on the right hand side will indicate the number of "Devices in Test" and also how many are currently "Active". Press the **Start** button to initiate the Walk Test. The Walk Test summary screen is then shown which

indicates the state of the Walk test. You can stop the test by pressing the **Stop Walk Test** button.

The results of the Walk test can be saved to a blank USB memory stick. Insert this memory stick into the USB port on the front of the GUI and use the Save button when it appears.

When the walk test is active, the Walk Test icon will display in the header of the screen. This indicates to other users that a Walk Test is under way.

The information in the Walk Test summary is shown in Table 2.

Information Item	Explanation
Panel	Indicates the panel you specified.
Walk Test Mode	A reminder of your settings.
Location	Zone(s) containing devices in Walk Test. Displays '-' if multiple zones are in Walk Test.
Devices in Test	Number of devices included in the scope of your settings.
Zones in Test	Number of zones with a device in Walk Test.

Table 2: Walk Test summary information

Information Item	Explanation
Excluded/ Disabled Devices	Number of devices that would be tested, but are disabled.
Been Active	Number of devices that have been active since the test was started. This should match 'Successful Test'. (This will not match 'Successful Test' if devices were already active on starting the Walk Test.)
Been Clear	Number of devices that have been inactive since the start of the test.
Successful Test	Number of devices that have switched from the "clear" to the "active" states. This will increase as you test devices, and the test is successful. Again, this should match "Been Active". (This will not match if you started with a device already active).
Currently Active	Number of devices currently active. For example a callpoint under test will appear here until it is reset.

Table 2: Walk Test summary information

## 4.7 Silence/Resound Sounders

This button silences or resounds the sounders on the system if the user is logged in at an appropriate level. An alarm in a new zone will automatically enable sounders that were previously silenced.

## 4.8 Sounders On/Off

To permanently disable Sounders, login and then press Sounders On/Off button on the home screen. Sounders that are silenced using this button do not ring when new alarms are generated.

## 4.9 Save

To save the status of the system as a file onto a USB memory stick, connect a blank memory stick to the USB port and use the **Save** button, when it appears. Writing data to the USB stick may take some time. A popup is displayed showing the progress of the save operation. The format used can be text, csv or pdf. This can be configured in **Configure-> Settings->Printer settings**. Some screens

can be printed to a panel printer instead of being saved to USB. This is also configured in **Printer settings**. The button is labeled **Print** instead of **Save** where applicable.

## 4.10 Silence Buzzer

Use the **Silence Buzzer** button to silence the internal buzzer of the panel. New faults on the system may re-enable the buzzer. The buzzer cannot be silenced when a system fault is present. To clear a system fault, press the Fire reset button on the touch screen.

## 4.11 Event Log

FireClass FC700 series panels store up to 10000 system events in their event logs.

The event logging is configurable, so there may be variations between panels (for example in what types of events are logged).

To review logged events use the **Event Log** button. You can filter events by type or by date/time.

## 5 Faults

Faults must be investigated and resolved. You are alerted to faults by the LEDs activating, such as the **Mains Fault** LED and also by a change in the background colour of the GUI, as shown on Page 4.

For a list of faults, use the 'Events Summary' window on the Home screen.



### **DANGER**

**Incorrect responses to event alerts may lead to death, serious injuries or damage to property.**

**For example it is important that fault alerts such as a mains failure are acted upon. (The battery backup will maintain panel operation, but only for a limited period before failing.)**

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## 6 System Status

You can check the state of the system using various functions and filters, as described in the following sections. These are 'customer' level login functions. To see the system status functions available to service personnel, see the "Engineering Functions" section.

### 6.1 Point

Select **System Status** » **Point** to view the status of a specific point, given by an exact address.

### 6.2 Function

Select **System Status** » **Function** to view status information of selected points. The selection is based on the point function (detector, sounder, callpoint, etc).

### 6.3 Zone

Select **System Status** » **Zone** to view key statuses including Fire, Fault and Disablements, and which are organised by zone. The information includes the total number of points in that zone, and the number of points in the Fire/Fault or Disabled state.

### 6.4 Loop

Select **System Status** » **Loop** to view status information of points in selected zones.

### 6.5 Network

Select **System Status** » **Network** for information on the status of Nodes over FCNet and Ethernet. Nodes can be indicated as 'Configured' or 'Not Responding'.

### 6.6 Commissioning

Select **System Status** » **Commission** to review mode settings that relate to the detailed control panel operation.

### 6.7 Events Summary

Use the 'Events Summary' window in the Home screen to see a top level report of points in the system, including the number of points in the following states:

- Warning
- Fault
- Disabled
- Test

Also note the system messages such as sounders off/silenced. Use the **Events Summary** button for detailed information on the counts.

### 6.8 System summary

To view the 'System Summary', login and select **System Status** on the Home screen and refer to the 'System Summary' sub-window for detailed summary information about the system.

### 6.9 System Review

To view 'System review', login and select **Configure** on the home screen and refer to the 'System Review' window for system level counts such as fire alarm count test counts, the state of battery and maintenance count.

Touch the System review sub-window to show additional details such as:

- the software versions of panel components.
- the version of the FireClass Express configuration.

## 7 Routine Checks

### 7.1 General

It is recommended that installation is checked on a regular basis by a responsible member of staff using the steps described in both the Daily and Weekly checks sections.

This may be a requirement under local regulations or codes of practice.

### 7.2 Daily Checks

#### How to do a daily check

- 1 Ensure that the front panel of the fire alarm control panel is indicating a normal condition (for example, no alarm or fault LEDs are lit and the GUI is displaying the date and time).  
If the panel is not indicating a normal condition, record the condition in the log book and take any necessary action.
- 2 Check that any fault recorded on the previous day has received attention.

### 7.3 Weekly Checks

#### How to do a weekly check

- 1 If necessary, clean the front panel of the fire alarm control panel with a suitable cleansing agent.



**CAUTION** To avoid unnecessary evacuation, warn all personnel that the sounders are about to be tested.

- 2 Activate a device (either a callpoint or detector).
- 3 Check that the system responds as follows:
  - The control panel's buzzer sounds in a continuous tone.
  - The (GENERAL) **FIRE** LED on the control panel front lights.
  - The appropriate red **ZONE STATUS** LED flashes.
  - The sounders operate.
  - The GUI display shows the location of the alarm.
- 4 Record the device used to initiate the test in the site log book and reset the fire alarm control panel.
- 5 Check the condition of the printout on any printers attached to the system and replace the ribbon if it is becoming feint.
- 6 Ensure that each printer has an adequate supply of paper.

Record any defect in the log book and take the appropriate action to remedy this.

## 8 Engineering Functions

The FireClass login levels are Commissioning, Engineer 3, Engineer 2 and Engineer 1. Each level is higher than all the levels following it in the list (so 'Commissioning' can access all the menu items, for example). After login your access level is shown at the bottom of the GUI menu area - see Fig. 4.

The System Status, Configure and Tasks engineering functions are shown in Table 3, with the corresponding minimum login level of each function. Where the function is indented, it is in a sub-menu of a function above it.

For more information on the functions associated with the 'customer' login levels, refer to the "User Functions" section.



### **DANGER**

**Leaving a fire alarm panel in commissioning mode may lead to a fire being undetected, leading to possible death, serious injuries or damage to property, and may break compliance with EN54.**

**Enter commissioning mode with caution and log out of commissioning mode as soon as possible afterwards.**

Function	Minimum Login Level	Engineer level function information
Service Device	Engineer	Functions to maintain loop devices.
Calibrate DDM	Engineer	Functionality to calibrate DDM devices.
Modify Dev Addr	Engineer	Functionality to change the address of a loop device. This does not change the configuration.
Device Dates	Engineer	Functionality to review the status of CO devices with expiry dates.
Auto Test Alarm	Engineer	Functionality to perform auto test on alarm devices that support automatic testing.
System Status	Customer Levels	All of the functions that are available at customer levels <sup>[1]</sup> and the additional functions described below.
Point	Engineer	Use <i>Point</i> to view the point status information, including analog values. You can filter the point by region and you can see additional point status.
Loop	Engineer	Use <i>Loop</i> for status information on the points in your specified loop. The loop you specify will be scanned for status information. Note that this will lead to the other arm of the loop pairing being shut down. For example if you specify Loop A, then Loop B will be shut down during the period of the scan. <sup>[2]</sup>
Commission	Engineer	Use <i>Commission</i> to review and change mode settings that relate to the detailed control panel operation.
Configure	Customer Levels	All of the functions that are available at customer levels and the additional functions described below.
Settings	Customer Levels	All of the functions that are available at customer levels and the additional functions described below.
Point Settings	Engineer	Use <i>Point Settings</i> to add points (for example, a new detector), or change the point text.

Table 3: Minimum Access Levels

[1] For more information, see the "System Status" section.

[2] See the Danger notice below

[3] For more information, see the "User Functions" section.



Function	Minimum Login Level	Engineer level function information
Calibrate Loop	Engineer	Use <i>Calibrate Loop</i> to select loops and calibrate them to comply with EN54 Part 13. To access the <i>Calibrate Loop</i> button, configure the panel in EN54-13 mode using the FireClass Express configuration tool.
Auto Configure	Engineer	Using <i>Autoconfigure</i> is useful when the panel has not been loaded with a configuration, or when new devices have been installed onto the loops and you need to update the panel configuration to include these devices. A self-learning routine runs on the panel during which the panel detects what devices there are on its loops, and writes these into its configuration.
Modify Point	Engineer	Use this to change details of the point, such as the description, device type and use.
Insert Point	Engineer	Use this to configure a new point (address), so that you can add a new device to the loop, for example.
Delete Point	Engineer	Use to delete a point.
Service	Engineer	Use to perform service type operations such as calibrations.
Panel Restart	Engineer	Use <i>Panel Restart</i> to restart a panel.
Update Panel	Engineer	Use <i>Update Panel</i> to load a configuration for the panel from a USB flash drive. For details, refer to the FireClass Panels Commissioning Instructions.
Add RFID Card	Engineer	Use <i>Add RFID Card</i> to programme an RFID card with a logon and password, to be used to automatically log on to the panel.
Tasks	Customer Levels	All of the functions that are available at customer levels <sup>[3]</sup> and the additional functions described below.
Force I/O	Engineer	Use the 'force' function to override normal device behaviour. Force ON: Remains in force until 'Unforce' is used on the point. Unforce: Cancels a 'Force ON' Force OFF: Prevents the device activating when it normally would. For example, a forced off sounder would not sound when the panel went into alarm.
Zone Points	Engineer	Apply a force function to a zone point.
Status	Engineer	See the status of a forced zone or point.
Single Address	Engineer	Apply a force function to a device via its point address.

Table 3: Minimum Access Levels

[1] For more information, see the "System Status" section.

[2] See the Danger notice below

[3] For more information, see the "User Functions" section.



Fig. 4: Login Level Indication



**DANGER**

**A loop will be shut down for a short period during a loop scan, leaving areas of the building unprotected.**

**Before carrying out the operation, liaise with site personnel in taking appropriate precautions.**

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